TOSHIBA
Leading Innovation >>>

Owner's Manual

Integrated High Definition LCD Television

COLORSTREAM® HD

DOLBY DIGITAL | HDMI® HIGH-DEFINITION MULTIMEDIA INTERFACE | HDTV HIGH-DEFINITION TELEVISION

19SL400U
22SL400U
26SL400U
32SL400U

For an overview of steps for setting up your new TV, see page 10.

Note: To display a High Definition picture, the TV must be receiving a High Definition signal (such as an over-the-air High Definition TV broadcast, a High Definition digital cable program, or a High Definition digital satellite program). For details, please contact your TV antenna installer, cable provider, or satellite provider.

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Owner's Record

The model number and serial number are on the back of your TV. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this TV.

Model number:

Serial number:

HDA51S3202I

Dear Customer,

Thank you for purchasing this Toshiba LCD TV. This manual will help you use the many exciting features of your new LCD TV. **Before operating your LCD TV, please read this manual completely**, and keep it nearby for future reference.

Safety Precautions

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

WARNING
RISK OF ELECTRIC SHOCK DO NOT OPEN.

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions. See item 25 on page 4.

WARNING: If you decide to wall mount this television, always use a UL Listed wall bracket appropriate for the size and weight of this television. The use of any wall bracket other than a UL Listed wall bracket appropriate for the size and weight of this television for wall mounting this television could result in serious bodily injury and/or property damage. See "Removing the Pedestal Stand" (☞ page 6).

NOTE TO CATV INSTALLERS

This is a reminder to call the CATV system installer's attention to Article 820-40 of the U.S. NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical. For additional antenna grounding information, see items 32 and 33 on page 4.

CHILD SAFETY:

It Makes A Difference How and Where You Use Your Flat Panel Display

Congratulations on your purchase! As you enjoy your new product, please keep these safety tips in mind:

The Issue

- The home theater entertainment experience is a growing trend and larger flat panel displays are popular purchases. However, flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations.
- Flat panel displays that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests or carts may fall over and cause injury.



TOSHIBA Cares!

- The consumer electronics industry is committed to making home entertainment enjoyable and safe.

Tune Into Safety

- One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use of your flat panel display.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't allow children to climb on or play with furniture and television sets.
- Don't place flat panel displays on furniture that can easily be used as steps, such as a chest of drawers.
- Remember that children can become excited while watching a program, especially on a "larger than life" flat panel display. Care should be taken to place or install the display where it cannot be pushed, pulled over, or knocked down.



- Care should be taken to route all cords and cables connected to the flat panel display so that they cannot be pulled or grabbed by curious children.

Wall Mounting: If you decide to wall mount your flat panel display, always:

- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- If you have any doubts about your ability to safely install your flat panel display, contact your retailer about professional installation.
- Make sure that the wall where you are mounting the display is appropriate. Some wall mounts are not designed to be mounted to walls with steel studs or old cinder block construction. If you are unsure, contact a professional installer.
- A minimum of two people are required for installation. Flat panel displays can be heavy.

CEA
Consumer Electronics Association
www.CE.org/safety

Important Safety Instructions



1) **Read these instructions.**
2) **Keep these instructions.**
3) **Heed all warnings.**
4) **Follow all instructions.**

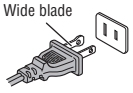
5) **Do not use this apparatus near water.**

6) **Clean only with dry cloth.**

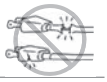
7) **Do do not block any ventilation openings.** Install in accordance with the manufacturer's instructions.

8) **Do not install near any heat sources** such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9) **Do not defeat the safety purpose of the polarized or grounding type plug.** A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.



10) **Protect the power cord** from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.



11) **Only use attachments/accessories specified by the manufacturer.**

12) **Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.** When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



13) **Unplug this apparatus during lightning storms or when unused for long periods of time.**

14) **Refer all servicing to qualified service personnel.** Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Additional Safety Precautions

14a) **CAUTION:** If the TV is dropped and the cabinet or enclosure surface has been damaged or the TV does not operate normally, take the following precautions:
- ALWAYS turn off the TV and unplug the power cord to avoid possible electric shock or fire.
- NEVER allow your body to come in contact with any broken glass or liquid from the damaged television. The LCD panel inside the TV contains glass and a toxic liquid. If the liquid comes in contact with your mouth or eyes, or your skin is cut by broken glass, rinse the affected area thoroughly with water and consult your doctor.
- ALWAYS contact a service technician to inspect the TV any time it has been damaged or dropped.

15) **CAUTION:**
- To reduce the risk of electric shock, do not use the polarized plug with an extension cord, receptacle, or other outlet unless the blades can be inserted completely to prevent blade exposure.
- To prevent electric shock, match wide blade of plug to wide slot; fully insert.

16) **CAUTION:**
Do not let children swallow the product or play with the plastic bag. Keep the product and the plastic bag out of the reach of children.

17) **CAUTION:**
Do not let water or other liquids come into contact with the product, as it may result in damage.

18) **WARNING:**
- To prevent the spread of fire, keep candles or other open flames away from this product at all times.
- Keep the product away from direct sunlight, fire or a heat source such as a heater. This may reduce the product lifetime or result in fire.

Installation, Care, and Service

Installation

Follow these recommendations and precautions and heed all warnings when installing your TV:

19) **WARNING: NEVER expose batteries to excessive heat such as sunshine, fire or the like.**

20) ALWAYS plug the product into an outlet that is located in such a manner that it can be easily unplugged in case the product requires service.

21) NEVER route the product's power cord inside a wall or similar enclosed area.

22) Never modify this equipment. Changes or modifications may void: a) the warranty, and b) the user's authority to operate this equipment under the rules of the Federal Communications Commission.

23) **DANGER: RISK OF SERIOUS PERSONAL INJURY, DEATH, OR EQUIPMENT DAMAGE!**

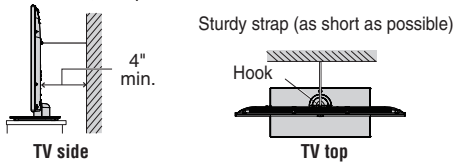


Never place the TV on an unstable cart, stand, or table. The TV may fall, causing serious personal injury, death, or serious damage to the TV.

(continued)

24) To avoid damage to this product, never place or store the TV in direct sunlight; hot, humid areas; or areas subject to excessive dust or vibration.

25) Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit. To secure the TV, use a sturdy strap from the hook(s) on the rear of the TV to a wall stud, pillar, or other immovable structure. Make sure the strap is tight, secure, and parallel to the floor.



Note: *Models 19SL400U and 22SL400U do not have a hook on the rear of the TV.*

26) The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

27) Never block or cover the slots or openings in the TV cabinet back, bottom, and sides. Never place the TV:
- On a bed, sofa, rug, or similar surface;
- Too close to drapes, curtains, or walls; or
- In a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation.



The slots and openings are provided to protect the TV from overheating and to help maintain reliable operation of the TV. Leave a space of at least 4 (four) inches around the TV.

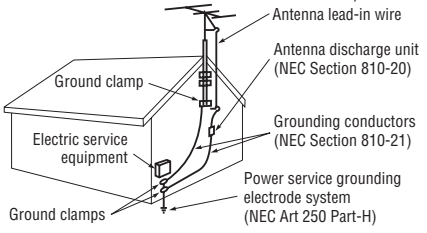
28) Always place the back of the television at least four (4) inches away from any vertical surface (such as a wall) to allow proper ventilation.

29) Never allow anything to rest on or roll over the power cord, and never place the TV where the power cord is subject to wear or abuse.

30) Never overload wall outlets and extension cords.

31) Always operate this equipment from a 120 VAC, 60 Hz power source only.

32) Always make sure the antenna system is properly grounded to provide adequate protection against voltage surges and built-up static charges (see Section 810 of the National Electric Code).



33) **DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!**
- Use extreme care to make sure you are never in a position where your body (or any item you are in contact with, such as a ladder or screwdriver) can accidentally touch overhead power lines. Never locate the antenna near overhead power lines or other electrical circuits.
- Never attempt to install any of the following during lightning activity: a) an antenna system; or b) cables, wires, or any home theater component connected to an antenna or phone system.

Care

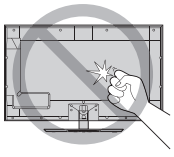
For better performance and safer operation of your TOSHIBA TV, follow these recommendations and precautions:

34) If you use the TV in a room whose temperature is 32 °F (0 °C) or below, the picture brightness may vary until the LCD warms up. This is not a sign of malfunction.

35) Always unplug the TV before cleaning. Gently wipe the display panel surface (the TV screen) using a dry, soft cloth only (cotton, flannel, etc.). A hard cloth may damage the surface of the panel. Avoid contact with alcohol, thinner, benzene, acidic or alkaline solvent cleaners, abrasive cleaners, or chemical cloths, which may damage the surface. Never spray volatile compounds such as insecticide on the cabinet. Such products may damage or discolor the cabinet.



36) Never hit, press, or place anything on the back cover. These actions will damage internal parts.



37) **WARNING: RISK OF ELECTRIC SHOCK!**

Never spill liquids or push objects of any kind into the TV cabinet slots.

38) While it is thundering, do not touch the connecting cables or apparatus.

(continued)

39) For added protection of your TV from lightning and power surges, always unplug the power cord and disconnect the antenna from the TV if you leave the TV unattended or unused for long periods of time.

40) ALWAYS unplug the TV to completely disconnect from mains power. When the TV is turned off using the on/off switch, it is not completely disconnected from power and a minute amount of current is still consumed.

41) During normal use, the TV may make occasional snapping or popping sounds. This is normal, especially when the unit is being turned on or off. If these sounds become frequent or continuous, unplug the power cord and contact a Toshiba Authorized Service Center.

42) **DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!**

Never strike the screen with a sharp or heavy object.



43) • The LCD screen of this product can be damaged by ultraviolet radiation from the sun. When selecting a location for the television, avoid locations where the screen may be exposed to direct sunlight, such as in front of a window.

• Never touch, press, or place anything on the LCD screen. These actions will damage the LCD screen. If you need to clean the LCD screen, follow the instructions in item 35 on page 4.

Service

44) **WARNING: RISK OF ELECTRIC SHOCK!**

Never attempt to service the TV yourself. Opening and removing the covers may expose you to dangerous voltage or other hazards. Failure to follow this WARNING may result in death or serious injury. Refer all servicing not specified in this manual to a Toshiba Authorized Service Center.

45) If you have the TV serviced:
- Ask the service technician to use only replacement parts specified by the manufacturer.
- Upon completion of service, ask the service technician to perform routine safety checks to determine that the TV is in safe operating condition.

Choosing a location for your LCD TV

To Display your LCD TV on the included Pedestal Stand:

Observe the following safety precautions:

1) Read and Follow the pedestal assembly instructions included with the pedestal.

   CAUTION: Before beginning pedestal assembly, carefully lay the front of the LCD Panel face down on a flat, cushioned surface such as a quilt or blanket. Leave the bottom of the unit protruding over the edge of the surface and assemble the pedestal as indicated below.

   Note: *Extreme care should always be used when attaching the pedestal stand to avoid damage to the LCD panel.*

2) Place the TV on a sturdy, level surface that can support the weight of the TV.
3) Be sure to secure the TV to a wall, pillar, surface, or other immovable structure. (☞ item 25, page 4).

To Display your LCD TV using a Wall Bracket:

If you decide to wall mount your LCD TV, always use a UL listed wall bracket appropriate for the size and weight of the LCD TV (☞ page 2):

1) **CAUTION:** Two people are required for installation.
2) Unplug and remove any cables and/or other component connectors from the rear of the TV.
3) Remove the screws of the VESA Mounting Pattern show in the next page.
4) Always use the screws supplied or recommended by the wall mount manufacturer.
5) Follow the instructions provided with your wall bracket. Before proceeding, make sure the appropriate bracket(s) are attached to the wall and the back of the TV as described in the instructions provided with the wall bracket.
6) After attaching the appropriate bracket(s) to the wall and the back of the TV, remove the pedestal stand from the TV as described on the following page.

(continued)

7) VESA Mounting Pattern

TV Size	Hole Pattern(HxV)	Screw Size
19”	100x100 mm	M4
22”	100x100 mm	M4
26”	200x100 mm	M4
32”	200x200 mm	M6

(unit in mm)

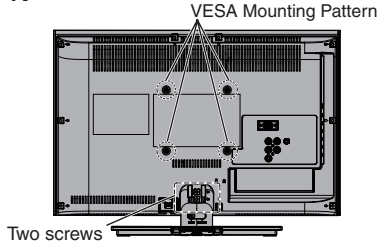
Removing the Pedestal Stand

1) Carefully lay the front of the unit face down on a flat, cushioned surface such as a quilt or blanket. Leave the stand protruding over the edge of the surface.

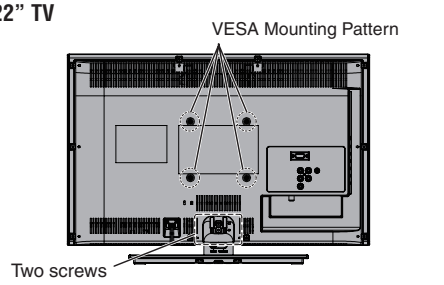
   Note: *Extreme care should always be used when removing the pedestal stand to avoid damage to the LCD panel.*

2) Remove the four screws shown in the right diagram. This will allow removal of the pedestal stand.
3) Once you have removed all four screws, holding the pedestal stand in place, remove the pedestal stand from the TV.

19” TV

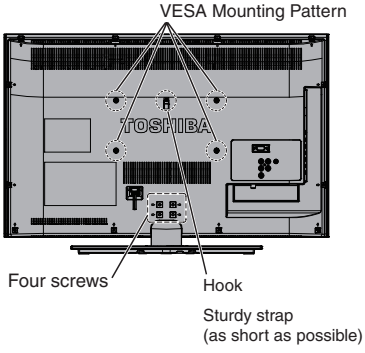


22” TV

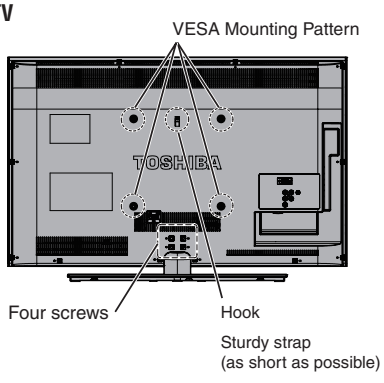


CAUTION: Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit.

26” TV



32” TV



CAUTION: Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit. To secure the TV, use a sturdy strap from the hook(s) on the rear of the TV to a wall stud, pillar, or other immovable structure. Make sure the strap is tight, secure, and parallel to the floor.

FCC Declaration of Conformity Compliance Statement (Part 15):

The **Toshiba 19SL400U, 22SL400U, 26SL400U, and 32SL400U Televisions** comply with Part 15 of the FCC rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

The party responsible for compliance to these rules is:
Toshiba America Consumer Products, L.L.C.
82 Totowa Rd. Wayne, NJ 07470.
Ph: 1-800-631-3811

Note: *This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by removing and applying power to the equipment, the user is encouraged to try to correct the interference by one or more of the following measures:*

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: *Changes or modifications to this equipment not expressly approved by Toshiba could void the user's authority to operate this equipment.*

ENERGY STAR® User Information

ENERGY STAR User Information Statement: the factory default settings of this television meet ENERGY STAR requirements. Changing Picture Settings may increase energy consumption, possibly beyond the limits required for ENERGY STAR qualification.
To ensure your television is operating at optimal energy efficiency, select [Home] mode during initial activation.

To return to [Home] mode settings, select [Standard] picture mode. [Standard] mode is recommended for normal home use.

ENERGY STAR® qualified TV. Products that earn the ENERGY STAR prevent green house gas emissions by meeting strict guidelines set by the U.S. Environmental Protection Agency. ENERGY STAR and the ENERGY STAR mark are registered U.S. marks.

Important notes about your LCD TV

The following symptoms are technical limitations of LCD Display technology and are not an indication of malfunction; therefore, Toshiba is not responsible for perceived issues resulting from these symptoms.

1) An afterimage (ghost) may appear on the screen if a fixed, nonmoving image is displayed for a long period of time. The afterimage is not permanent and will disappear in a short period of time.
2) The LCD panel contained in this TV is manufactured using an extremely high level of precision technology; however, there may be an occasional pixel (dot of light) that does not operate properly (does not light, remains constantly lit, etc.). This is a structural property of LCD technology, is not a sign of malfunction, and is not covered under your warranty. Such pixels are not visible when the picture is viewed from a normal viewing distance.

Note: *Interactive video games that involve shooting a "gun" type of joystick at an on-screen target may not work with this TV.*

Trademark Information

- Manufactured under license from Dolby Laboratories.
  Dolby and the double-D symbol are trademarks of Dolby Laboratories.
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Features of your new TV

The following are just a few of the many exciting features of your new Toshiba widescreen, integrated HD, LCD TV:

- **Integrated digital tuning (8VSB ATSC and QAM)** eliminates the need for a separate digital converter set-top box (in most cases).
- 1366 x 768 output resolution.
- **Two HDMI®** digital, high-definition multimedia interfaces 1080p input support (☞ page 16).
- **One set of ColorStream® HD** high-resolution component video inputs (☞ page 15). This is used by setting the AV input mode to ColorStream HD (☞ page 26).
- **Digital Audio Out** optical audio connection with Dolby® Digital optical output format (☞ page 39).
- **CableClear®** digital picture noise reduction (☞ page 52).
- **PC IN (Analog RGB)** computer terminal (☞ pages 18-19).
- **REGZA-LINK** allows control of external devices from the TV remote via HDMI connection(☞ page 48).
- **Media Player** allows you to view photo files and to play music files.(☞ page 44).

Overview of steps for installing, setting up, and using your new TV

Follow these steps to set up your TV and begin using its many exciting features.

1 Carefully read the important safety, installation, care, and service information. Keep this manual for future reference.

2 Observe the following when choosing a location for the TV:

- Read "Important notes about your LCD TV" (☞ page 7).
- Place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit. Secure the TV to a wall, pillar, or other immovable structure (☞ page 4).
- Place the TV in a location where light does not reflect on the screen.
- Place the TV far enough from walls and other objects to allow proper ventilation. Inadequate ventilation may cause overheating, which will damage the TV. THIS TYPE OF DAMAGE IS NOT COVERED UNDER THE TOSHIBA WARRANTY.

3 Do not plug in any power cords until AFTER you have connected all cables and devices to your TV.

4 BEFORE connecting cables or devices to the TV, learn the functions of the TV's connections and controls (☞ pages 11–12).

5 Connect your other electronic device(s) to the TV (☞ pages 13–19).

6 Install the batteries in the remote control (☞ page 20).

7 See "Learning about the remote control" (☞ page 21) for an overview of the buttons on the remote control.

8 AFTER connecting all cables and devices, plug in the power cords for your TV and other devices. Then press **POWER** on the TV control panel or remote control to turn on the TV. If the TV stops responding to the controls on the remote control or TV control panel and you cannot turn the TV off or on, please unplug the power cords few seconds then re-plug to try again.

9 See "Menu layout and navigation" for a quick overview of navigating the TV's menu system (☞ page 22).

10 Program channels into the TV's channel memory (☞ page 24).

11 For details on using the TV's features, see Chapters 6 and 7.

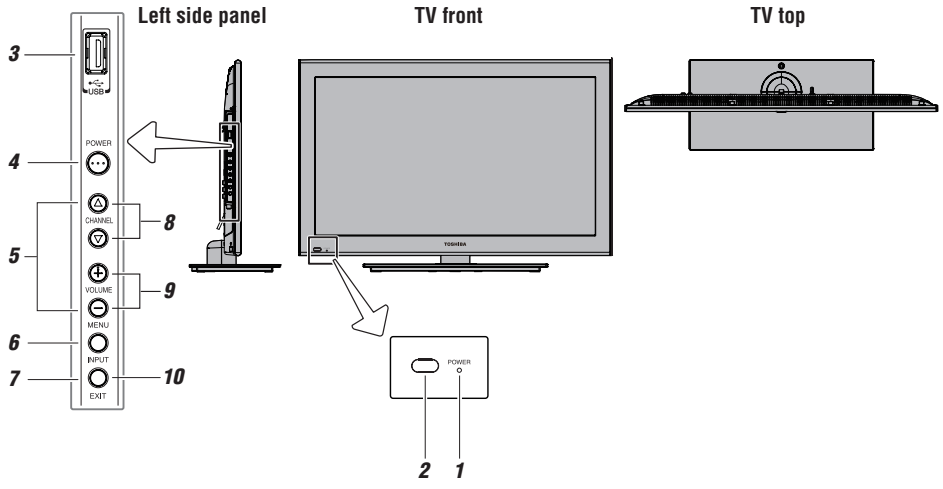
12 For help, refer to the Troubleshooting Guide, Chapter 8.

13 For technical specifications and warranty information, see Chapter 9.

14 Enjoy your new TV!

TV front and side panel controls and connections

Model 26SL400U is used in this manual for illustration purposes.



1 **Green LED**
Power LED(Green) = Power indicator

2 **Remote sensor** — Point the remote control toward this remote sensor (☞ "Remote control effective range" on page 20).

3 **USB port** — To access photo or music files.

4 **POWER** — Press to turn the TV on and off. If the TV stops responding to the controls on the remote control or TV control panel and you cannot turn off the TV, please unplug the power cord few seconds then re-plug to try again.

5 **ARROWS ▲▼ +-** — When a menu is on-screen, these buttons function as up/down/left/right menu navigation buttons.

6 **MENU (ENTER)** — Press to access the menu system (☞ pages 22–23). When a menu is on-screen, the **MENU** button on the TV's control panel functions as the **ENTER** button.

7 **EXIT** — Press to instantly close an on-screen menu.

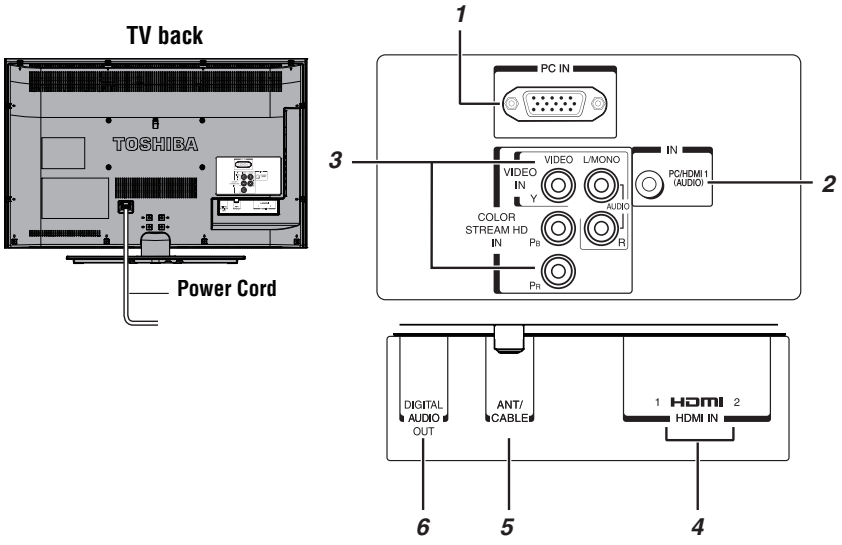
8 **CHANNEL ▲▼** — When no menu is on-screen, these buttons change the channel (programmed channels only; ☞ page 24).

9 **VOLUME +-** — These buttons adjust the volume level.

10 **INPUT** — Repeatedly press to change the source you are viewing (**ANT/CABLE, ColorStream HD, HDMI 1, HDMI 2, PC**).

TV back panel connections

For an explanation of cable types and connections, see pages 13–19.



1 **PC IN** — For use when connecting a personal computer.

2 **PC/HDMI-1 (AUDIO) IN** — PC audio input terminal is shared with HDMI-1 analog audio input terminal, and its use can be configured in the **Audio Setup** menu (☞ page 43).

3 **ColorStream® HD / VIDEO IN** — These include standard A/V connections. These are switched by AV input mode (☞ page 26).

Note: *Component / Standard (composite) video cables carry only video information; separate audio cables are required for a complete connection.*

4 **HDMI® IN** — High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device or uncompressed digital video from a DVI device. HDMI connection is necessary to receive 1080p signals.

5 **ANT/CABLE** — Input that supports analog (NTSC) and digital (ATSC) off-air antenna signals and analog and digital Cable TV (QAM) signals.

6 **Digital Audio OUT** — Optical audio output in Dolby Digital or PCM (pulse-code modulation) format for connecting an external Dolby Digital decoder, amplifier, or home theater system with optical audio input.

Overview of cable types

Cables can be purchased from most stores that sell audio/video devices. Before purchasing any cables, be sure of connector types required by your devices and the length of each cable.

Coaxial (F-type) cable



Coaxial (F-type) cable is used for connecting your antenna, cable TV service, and/or cable converter box to the **ANT/CABLE** input on your TV.

Standard A/V cables (red/white/yellow)



Standard A/V cables (composite video) usually come in sets of three, and are for use with video devices with analog audio and composite video output. These cables (and the related inputs on your TV) are typically color-coded according to use: yellow for video, red for stereo right audio, and white for stereo left (or mono) audio.

Component video cables (red/green/blue)



Component video cables come in sets of three and are for use with video devices with component video output. (ColorStream® is Toshiba's brand of component video.) These cables are typically color-coded red, green, and blue. Separate audio cables are required for a complete connection.

Note: *Component video cables provide better picture performance than a standard (composite) video.*

HDMI® cable (with HDMI Logo "HDMI®")



HDMI (High-Definition Multimedia Interface) cable is for use with devices with an HDMI output. An HDMI cable delivers digital audio and video in its native format. This cable carries both video and audio information; therefore, separate audio cables are not required for a complete HDMI device connection (☞ page 16 and page 19).

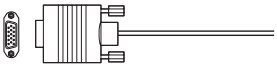
Note: *An HDMI cable provides the best audio and picture performance.*

Optical audio cable



Optical audio cable is for connecting receivers with Dolby Digital or PCM (pulse-code modulation) optical audio input to the TV's **DIGITAL AUDIO OUT** terminal (☞ page 18).

Analog RGB (15-pin) computer cable



Analog RGB (15-pin) computer cable is for connecting a PC to the TV's **PC IN** terminal (☞ page 18).

Note: *Separate audio cables are required for a complete connection.*

3.5mm Stereo to RCA Y-cable

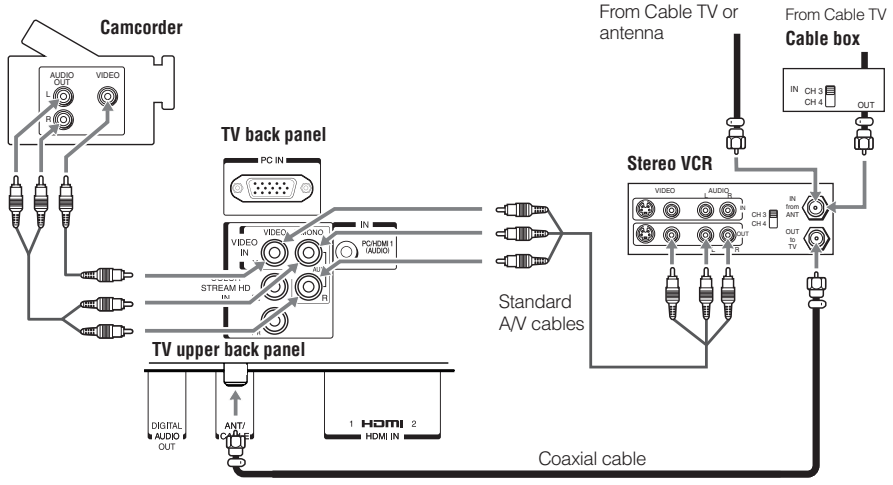


3.5mm Stereo to RCA Y-Cable is for connecting audio signal from DVI device to TV.

About the connection illustrations

You can connect different types and brands of devices to your TV in several different configurations. The connection illustrations in this manual are representative of typical device connections only. The input/output terminals on your devices may differ from those illustrated herein. For details on connecting and using your specific devices, refer to each device's owner's manual.

Connecting a VCR and antenna, Cable TV or Camcorder



You will need:

- Coaxial cables
- Standard A/V cables
  - *If you have a mono VCR, connect **L/MONO** on the TV to your VCR's audio out terminal using the white audio cable only.*
- Standard audio cables (*If you have a mono VCR*)

Note:

- *When you use a Cable box, you may not be able to use the remote control to program or access certain features on the TV.*
- *When you use ColorStream HD or Video, switch AV input mode appropriately (☞"Setting AV Input mode" on page 26).*

To view the antenna or Cable signal:

Select the **ANT/CABLE** video input source on the TV.*

To view basic and premium Cable channels:

Turn OFF the VCR. Select the **ANT/CABLE** video input source on the TV.* Tune the TV to channel 3 or 4 (whichever channel the Cable box output is set to). Use the Cable box controls to change channels.

To view the VCR:

Turn ON the VCR. Select the **VIDEO** video input source on the TV.*

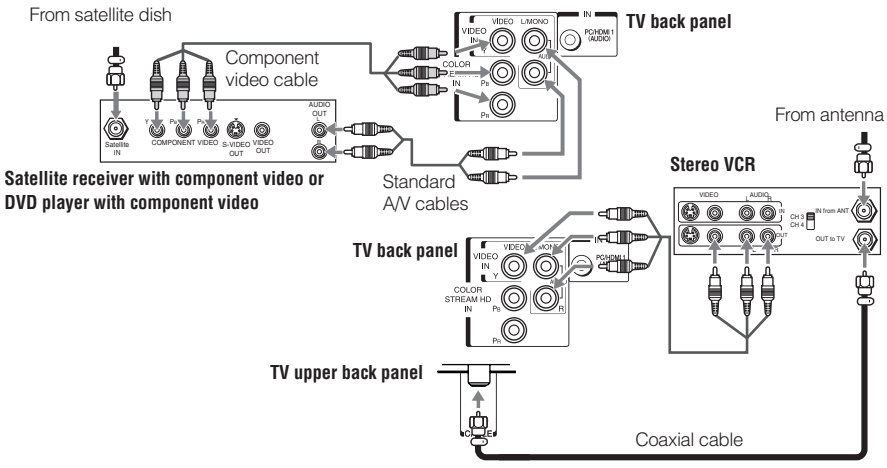
To view the camcorder video:

Select the **VIDEO** video input source on the TV.*

* To select the video input source, press **INPUT** on the remote control (☞ page 21).

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

Connecting a DVD player with ColorStream® (component video), a VCR, or a satellite receiver



You will need:

- Coaxial cables
- Standard A/V cables
  - *If you have a mono VCR, connect **L/MONO** on the TV to your VCR's audio out terminal using the white audio cable only.*
- Standard audio cables
- Component video cables
  - *You can connect the component video cables (plus audio cables) from the DVD player or satellite receiver to the **ColorStream** terminal on the TV. The **ColorStream HD** terminal can be used with Progressive (480p, 720p) and Interlaced (480i, 1080i) scan systems. A 1080i signal will provide the best picture performance (1080p is not supported).*

Note: *When you use ColorStream HD or Video, switch AV input mode appropriately (☞"Setting AV Input mode" on page 26).*

To view antenna or Cable channels:

Select the **ANT/CABLE** video input source on the TV.*

To view the DVD player:

Turn ON the DVD player. Select the **ColorStream HD** video input source on the TV.*

To view satellite programs using the component video connections:

Turn on the satellite receiver. Select the **ColorStream HD** video input source on the TV.*

To view the VCR or view and record antenna channels:

Turn ON the VCR. Tune the VCR to the channel you want to watch. Select the **VIDEO** video input source on the TV.*

To record a TV program while watching a DVD:

Turn ON the VCR. Tune the VCR to the channel to record.

---

* To select the video input source, press **INPUT** on the remote control (☞ page 21).

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

Connecting an HDMI® or DVI device to the HDMI input

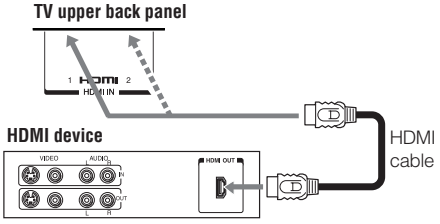
The HDMI input on your TV receives digital audio and uncompressed digital video from an HDMI source device, or uncompressed digital video from a DVI (Digital Visual Interface) source device.
This input is designed to accept HDCP (High-Bandwidth Digital-Content Protection) program material in digital form from EIA/CEA-861-D–compliant[1] consumer electronic devices (such as a set-top box or DVD player with HDMI or DVI output).

The HDMI input can accept and display VGA, SVGA, XGA, WXGA, SXGA, 480i (60Hz), 480p (60Hz), 720p (60Hz), 1080i (60Hz) and 1080p (24Hz/60Hz) signal formats. For detailed signal specifications, see page 56.
Supported Audio format: Linear PCM, sampling rate 32/44.1/ 48 kHz

Note: *To connect a PC to the HDMI input, see page 19.*

To connect an HDMI device, you will need:

- One HDMI cable (type A connector) per HDMI device
  - *For proper operation, it is recommended that you use an HDMI cable with the HDMI Logo (HDMI®).*
  - *To display an 1080i/60Hz signal format, you will need a Category 2 cable. Conventional HDMI/DVI cable may not work properly.*
  - *HDMI cable transfers both video and audio. Separate analog audio cables are not required (see illustration).*
  - *See "Setting the HDMI® audio mode" (☞ page 26).*



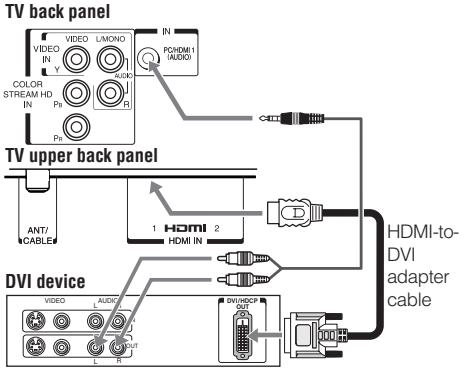
To view the HDMI device video:

Select the HDMI 1 or HDMI 2 video input source on the TV.*

* To select the video input source, press **INPUT** on the remote control (☞ page 21).

To connect a DVI device, you will need:

- One HDMI-to-DVI adapter cable (HDMI type A connector) per DVI device
  - *For proper operation, the length of an HDMI-to-DVI adapter cable should not exceed 9.8 ft (3m). The recommended length is 6.6 ft (2m).*
- One 3.5mm Stereo to RCA Y-Cable
  - *An HDMI-to-DVI adapter cable transfers video only. Separate analog audio cables are required (see illustration).*
  - *See "Setting the HDMI® audio mode" (☞ page 26).*



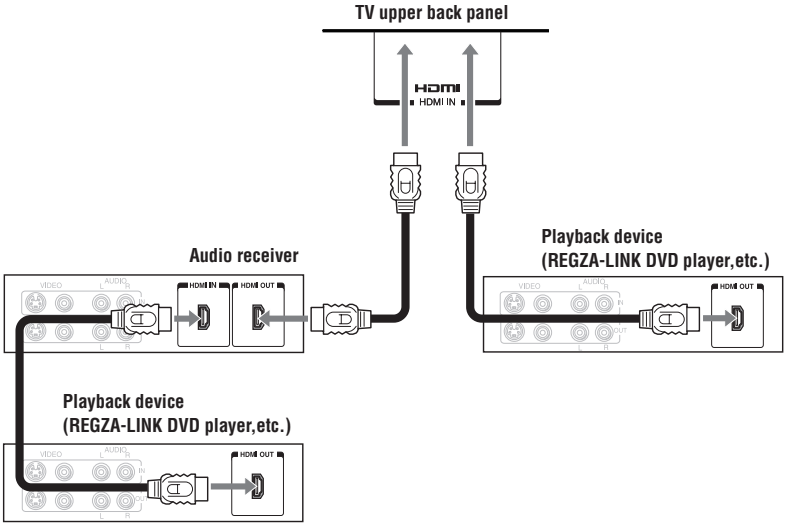
Note: *To ensure that the HDMI or DVI device is reset properly, it is recommended that you follow these procedures:*

- *When turning on your electronic components, **turn on the TV first**, and then the HDMI or DVI device.*
- *When turning off your electronic components, **turn off the HDMI or DVI device first**, and then the TV.*

[1] EIA/CEA-861-D compliance covers the transmission of uncompressed digital video with high-bandwidth digital content protection, which is being standardized for reception of high-definition video signals. Because this is an evolving technology, it is possible that some devices may not operate properly with the TV.

REGZA-LINK® connection

You can control the basic functions of connected audio/video devices using the TV's remote control if you connect a REGZA-LINK compatible audio receiver or playback device. For an explanation of setup and operations, see pages 48-49.



To connect an Audio Receiver and Playback Devices, you will need:

- HDMI cables (☞ page 13)

Note:

- If several devices are connected, REGZA-LINK feature may not operate properly.
- For proper operation, it is recommended that you use HDMI cables with the HDMI Logo (HDMI®).

Before controlling the device(s):

- After completing the above connections, set the **REGZA-LINK Setup** menu as you desire (☞ page 49).
- The connected devices must also be set. For details, see the operation manual for each device.
- The REGZA-LINK feature uses the CEC technology as regulated by the HDMI standard.
- This feature is limited to models incorporating Toshiba's REGZA-LINK. However, Toshiba is not liable for those operations. Refer to the individual instruction manuals for compatibility information.

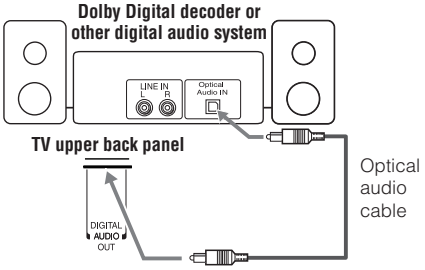
Note: *This feature may not work properly depending on the devices that are connected.*

Connecting a digital audio system

The TV's **DIGITAL AUDIO OUT** terminal outputs a *Dolby® Digital or 2-channel down-mixed PCM (pulse-code modulation) signal for use with an external Dolby® Digital decoder or other external audio system with optical audio input.

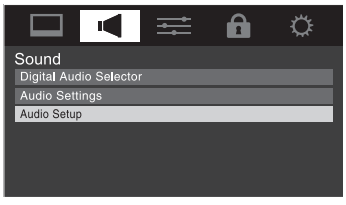
You will need:

- Optical audio cable (Use an optical audio cable that has the larger "TosLink" connector and not the smaller "mini-optical" connector.)



To control the audio:

1. Turn on the TV and the digital audio device.
2. Press MENU on the TV's remote control and open the **Sound** menu.
3. Highlight **Audio Setup** and press ENTER.



4. In the **Optical Output Format** field, select either **Dolby Digital** or **PCM,** depending on your device (☞"Selecting the optical audio output format" on page 38).



Note:

- *Some audio systems may not be compatible with Dolby Digital bitstream signals. Older audio systems that are not compatible with standard optical out signals may not work properly, creating a high noise level that may damage speakers or headphones. THIS DAMAGE IS NOT COVERED BY YOUR WARRANTY.*
- *The **DIGITAL AUDIO OUT** terminal may not output some digital audio sources because of copy restrictions.*

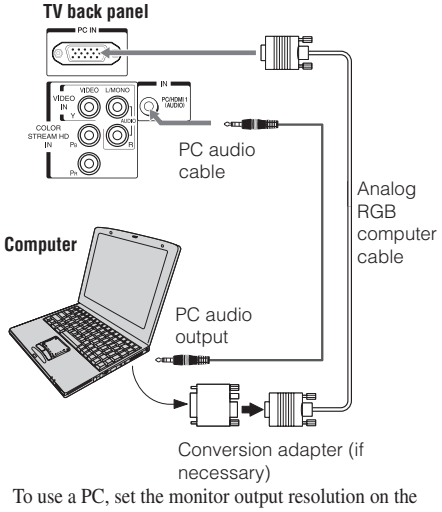
* Manufactured under license from Dolby Laboratories. Dolby, and the double-D symbol are trademarks of Dolby Laboratories.

Connecting a personal computer (PC)

With either the PC IN or HDMI connection, you can watch your computer's display on the TV and hear the sound from the TV's speakers.

To connect a PC to the PC IN terminal on the TV:

When connecting a PC to the PC IN terminal on the TV, use an analog RGB (15-pin) computer cable and a PC audio cable.



- To use a PC, set the monitor output resolution on the PC before connecting it to the TV. The PC IN terminal can accept and display VGA, SVGA, XGA and WXGA signal formats. For detailed signal specifications (☞ page 56).
  Other formats or non-standard signals will not be displayed correctly.
- To display the optimum picture, use the PC setting feature (☞ "Using the PC settings feature" on page 43).

(continued)

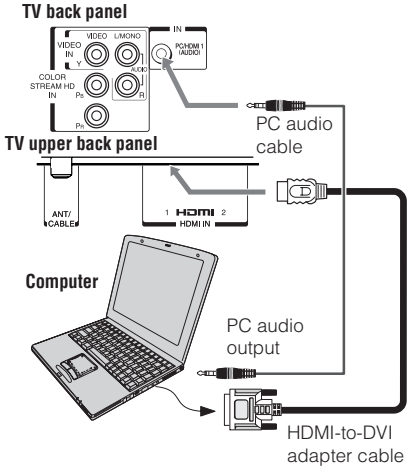
Note:

- *The PC audio input terminals on the TV are shared with the HDMI-1 analog audio input terminals (☞ page 43).*
- *Some PC models cannot be connected to this TV.*
- *An adapter is not needed for computers with a compatible mini D-sub15-pin terminal.*
- *Depending on the DVD's title and the specifications of the PC on which you are playing the DVD-Video, some scenes may be skipped or you may not be able to pause during multi-angle scenes.*
- Signal names for mini D-sub 15-pin connector

Pin No.	Signal name	Pin No.	Signal name	Pin No.	Signal name
1	R	6	Ground	11	Reserved
2	G	7	Ground	12	SDA
3	B	8	Ground	13	H-sync
4	Reserved	9	5V	14	V-sync
5	Reserved	10	Ground	15	SCL

To connect a PC to the HDMI terminal on the TV:

When connecting a PC to the HDMI terminal on the TV, use an HDMI-to-DVI adapter cable and analog audio cables.
If connecting a PC with an HDMI terminal, use an HDMI cable (type A connector). Separate analog cables are not necessary (☞ page 13).



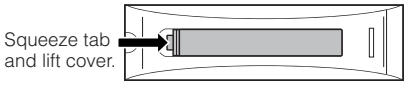
The HDMI input can accept and display VGA, SVGA, XGA, WXGA, SXGA, 480i (60Hz), 480p (60Hz), 720p (60Hz), 1080i (60Hz), and 1080p (24Hz/60Hz) signal formats. For detailed signal specifications, see page 56.

Note:

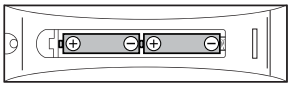
- *The edges of the images may be hidden.*
- *If receiving a 480i (HDMI), 480p (HDMI), 720p, 1080i, or 1080p signal program, Native mode scales the video to display the entire picture within the borders of the screen (i.e. no overscanning).*

Installing the remote control batteries

1 Remove the battery cover from the back of the remote control.



2 Install two "AAA" size batteries, making sure to match the + and – signs on the batteries to the signs on the battery compartment.



3 Reinsert the battery cover in the remote control until the tab snaps.

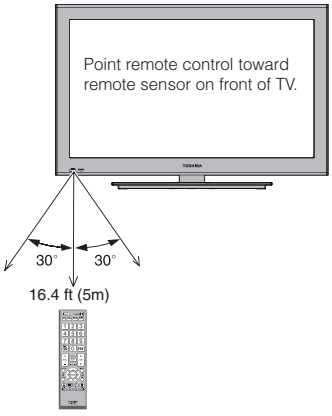
Caution: *Batteries must not be exposed to excessive heat such as sunshine, fire or the like.*

Note:

- *Be sure to use AAA size batteries.*
- *Dispose of batteries in a designated disposal area.*
- *Batteries should always be disposed of with the environment in mind. Always dispose of batteries in accordance with applicable laws and regulations.*
- *If the remote control does not operate correctly, or if the operating range becomes reduced, replace batteries with new ones.*
- *When necessary to replace batteries in the remote control, always replace both batteries with new ones. Never mix battery types or use new and used batteries in combination.*
- *Always remove batteries from the remote control if they are dead or if the remote control is not to be used for an extended period of time. This will prevent battery acid from leaking into the battery compartment.*

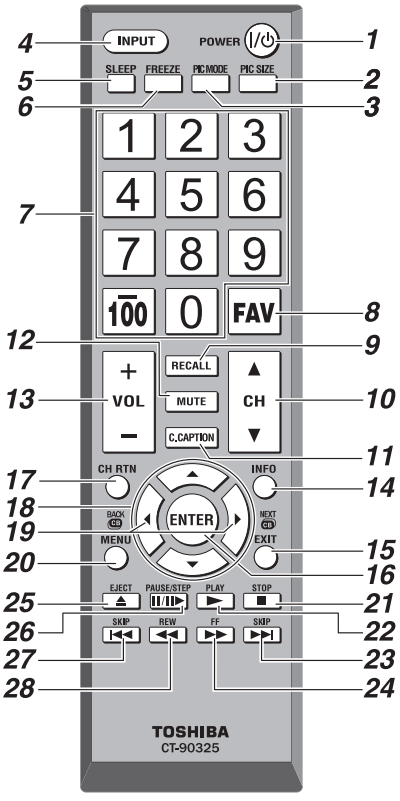
Remote control effective range

For optimum performance, aim the remote control directly at the TV and make sure there is no obstruction between the remote control and the TV.



Learning about the remote control

The buttons used for operating the TV only are described here.



Note: *The error message "NOT AVAILABLE" may appear if you press a key for a function that is not available.*

1 **POWER** turns the TV on and off. When the TV is on, the green LED indicator on the TV front will be illuminated.

2 **PIC SIZE** cycles through the picture sizes: **Natural**, **TheaterWide 1/2/3**, **Full**, **4:3 HD**, **Native** and **Dot by Dot** (☞ pages 32-34).

3 **PIC MODE** selects the picture mode (☞ page 35).

4 **INPUT** selects the video input source (☞ page 28).

5 **SLEEP** accesses the sleep timer (☞ page 47).

6 **FREEZE** freezes the picture. Press again to restore the moving picture (☞ page 35).

7 **Channel Numbers (0–9, –/100)** directly tune channels. The 100 button is used to tune digital channels (☞ page 32) or to edit the Favorites List (☞ page 29).

8 **FAV BROWSER** accesses the Favorites List in the Channel Browser™ (☞ page 29).

9 **RECALL** displays TV status information (☞ page 49).

10 **CH ▲▼** cycles through programmed channels when no menu is on-screen (☞ pages 24-25).

11 **C.CAPTION** accesses the closed caption (☞ page 36).

12 **MUTE** reduces or turns off the sound (☞ page 37).

13 **VOL + –** adjusts the volume level.

14 **INFO** displays TV status information as well as program details, when available (☞ page 50).

15 **EXIT** closes on-screen menus.

16 **ENTER** activates highlighted items in the main menu system.

17 **CH RTN** returns to the last viewed channel or source (☞ page 32).

18 **Arrow buttons (▲▼◀▶)** When a menu is on-screen, these buttons select or adjust programming menus. (Also see ◀ / ▶ .)

19 **◀ / ▶** While watching TV, these buttons open the Channel Browser™ and tune to the previous/next channel in the channel history (☞ page 29). (Also see "Arrow buttons.")

20 **MENU** accesses the main TV menu system (☞ pages 22-23).

21 **STOP** Stops the tape or DVD.

22 **PLAY** Begins playback of a tape or DVD.

23 **SKIP ▶▶|** Skips forward to locate later DVD chapters.

24 **FF** Fast-forwards the tape or DVD.(Press during play mode to view the picture moving rapidly forward.)

25 **EJECT** Eject the tape or DVD.

26 **PAUSE** Press during play or record mode to pause the picture ; press again to restart.

27 **SKIP |◀◀** Skips back to beginning of current DVD chapter, or locates previous chapters.

28 **REW** Rewinds/reverses the tape or DVD. (Press during play mode to view the picture moving rapidly backward.)

Main menu layout

The tables below and on the next page provide a quick overview of your TV's menu system.
To open the main menus (illustrated below), press MENU on the remote control or TV control panel.

Icon	Item		Option
Picture 	Mode	→	Sports / Standard / Movie / PC / Preference
	Picture Settings	→	[Opens the Picture Settings menu]
	Noise Reduction	→	[Opens the Noise Reduction menu]
	Game Mode	→	Off / On
	Theater Settings	→	[Opens the Theater Settings menu]
Sound 	Digital Audio Selector	→	[Launches the temporary Audio Selector]
	Audio Settings	→	[Opens the Audio Settings menu]
	Audio Setup	→	[Opens the Audio Setup menu]
Preferences 	CC Selector	→	[Launches the temporary CC Selector]
	Base CC Mode	→	Off / CC1 / CC2 / CC3 / CC4 / T1 / T2 / T3 / T4
	Digital CC Settings	→	[Opens the Digital CC Setup menu]
	Input Labeling	→	[Opens the Input Labeling menu]
	AV Input	→	Auto / ColorStream HD / Video
	Menu Language	→	English / Français / Español
	Channel Browser Setup	→	[Opens the Channel Browser Setup menu]
	REGZA-LINK Player Control	→	[Opens the REGZA-LINK Player Control]
	Energy Saving Settings	→	[Opens the Energy Saving Settings menu]
Locks 	Enable Rating Blocking	→	Off / On
	Edit Rating Limits	→	[Opens the Edit Rating Limits menu]
	Input Lock	→	Off / Video / Video+
	Control Panel Lock	→	Off / On
	GameTimer	→	Off / 30 min / 60 min / 90 min / 120 min
	New PIN Code	→	[Opens the New PIN Code entry screen]
Setup 	Installation	→	[Opens the Installation menu (☞ page 23)]
	REGZA-LINK Setup	→	Enable REGZA-LINK / TV Auto Input Switch / TV Auto Power / Device Auto Standby / Speaker Preference
	Sleep Timer	→	[Opens the Sleep Timer menu]
	PC Settings	→	[Opens the PC Settings menu]
	Media Player	→	[Opens the Media Player menu]

Setup/Installation menu layout

The **Installation** menu contains the **Terrestrial** and **System Status** menus.

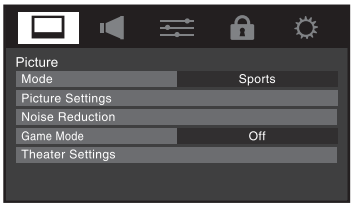
To open the **Installation** menu (illustrated below), press MENU on the remote control or TV control panel, open the **Setup** menu, select **Installation**, and press ENTER.

Icon	Item	Option
Terrestrial	Input Configuration	→ [Opens the Input Configuration menu]
	Channel Program	→ [Start] → [Scans for new channels on ANT/CABLE]
	Channel Options	→ [Opens the Skip / Lock Channel menu]
	Channel Tuning Mode	→ Standard / Auto / Digital
	Time Zone	→ Eastern / Newfoundland / Atlantic / Hawaii / Alaska / Pacific / Mountain / Central
	Signal Meter	→ [Opens the Signal Meter menu]
System Status	System Information	→ [Opens the System Information screen]

Navigating the menu system

You can use the buttons on the remote control or TV control panel to access and navigate your TV's on-screen menu system.

- Press MENU to open the menu system.



- When a menu is open, use the up/down/left/right arrow buttons (▲▼◀▶) on the remote control or TV control panel to move in the corresponding direction in the menu.
- Press ENTER to save your menu settings or select a highlighted item. (A highlighted menu item appears in a different color in the menu.)
- All menus close automatically if you do not make a selection within 60 seconds, except the signal meter menu, which closes automatically after about 5 minutes.
- To close a menu instantly, press EXIT.

Note:

The menu background may sometimes appear black, depending on the signal the TV is receiving. This is not a sign of malfunction.

Initial Setup

When you first turn on or reset the TV, the Initial Setup window will appear.

1. In the **Menu Language** field, press ◀ or ▶ to select your preferred language.
2. Press ◀ or ▶ to select **Time Zone** and set your desired time zone with ◀ or ▶ and press ENTER.
3. Next, the **Location** setting window will appear.For normal home use, press ◀ or ▶ to select **Home** and press ENTER.
4. Next, **ANT/CABLE In** setup window will appear. Press ◀ or ▶ to select the input source (**Cable** or **Antenna**) for the **ANT/CABLE** input on the TV.
5. If you select **Antenna**, the **Channel Tuning Mode** setup window will appear. To tune only digital channels, select **Digital**. To tune digital channels preferentially over analog when entering channel number directly, select **Auto**. For normal tuning, select **Standard**. Press ENTER to continue to Auto Tuning.
6. Press ENTER to select **Start Scan** and continue with the Auto Tuning.

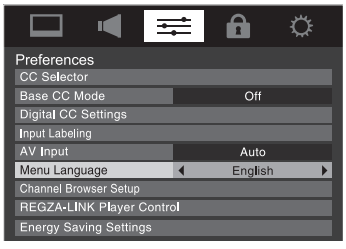
You can stop the Initial Setup with EXIT. However if you do not finish the entire Initial Setup process, the Initial Setup window will appear every time you turn on the TV.

Selecting the menu language

You can choose from three different languages (English, French and Spanish) for the on-screen display of menus and messages.

To select the menu language:

1. Press MENU and open the **Preferences** menu, highlight **Menu Language**.
2. Press ◀ or ▶ to select your preferred menu language.

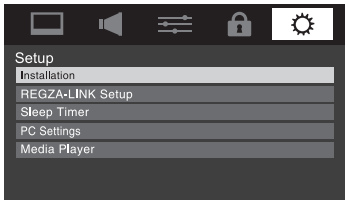


3. Press EXIT to close the **Preferences** menu.

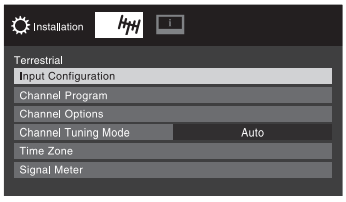
Configuring the antenna input source for the ANT/CABLE terminal

To configure the ANT/CABLE input source:

1. Press MENU and open the **Setup** menu.
2. Highlight **Installation** and press ENTER.



3. (A new set of **Installation** menu icons will appear, as shown below.) Open the **Terrestrial** menu, highlight **Input Configuration**, and press ENTER.



4. Highlight **ANT/CABLE In** and press ◀ or ▶ to select the input source (**Cable** or **Antenna**) for the **ANT/CABLE** input on the TV.



5. To save your new settings, highlight **Done** and press ENTER. To revert to your original settings, highlight **Cancel** and press ENTER.

Programming channels into the TV's channel memory

When you press CH ▲ or CH ▼ on the remote control or TV control panel, your TV will stop only on the channels you programmed into the TV's channel memory.
Follow the steps below to program channels into the TV's channel memory.

Programming channels automatically

Your TV can automatically detect all active channels in your area and store them in its memory. After the channels are programmed automatically, you can manually add or erase individual channels in the channel memory.

(continued)

Note:

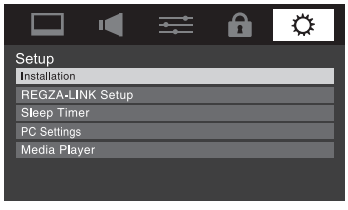
- *You must configure the ANT/CABLE input source before programming channels (☞ page 24).*
- *The automatic channel programming process will erase channels that were previously programmed into the TV's memory.*
- *To tune the TV to a channel not programmed in the channel memory, you must use the Channel Number buttons on the remote control.*
- *Programming channels when the ANT/CABLE input is configured for **Cable** will take substantially longer than when the antenna input is configured for **Antenna**. This is normal; however, once channel programming is finished, you should not have to repeat the programming process again unless your Cable TV service lineup changes significantly.*

To program channels automatically:

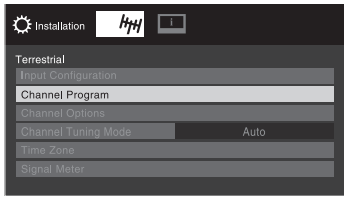
1 Configure the antenna input source, if you have not already done so (☞ page 24).

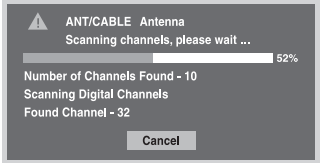
2 Press MENU and open the **Setup** menu.

3 Highlight **Installation** and press ENTER.



4 (A new set of **Installation** menu icons will appear, as shown below.) Open the **Terrestrial** menu, highlight **Channel Program** to bring up the **Start Scan**, and press ENTER again to begin channel programming.





The TV will automatically cycle through all the antenna channels, and store all active channels in the channel memory. While the TV is cycling through the channels, the message "Scanning channels, please wait" appears (as shown above).

5 To cancel channel programming, press EXIT on the remote control (or highlight **Cancel** in the on-screen display and press ENTER).

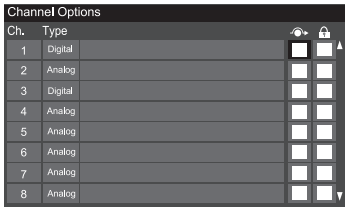
When channel programming is finished, press CH ▲ or CH ▼ to view the programmed channels.

Setting channel skip

To prevent certain channels from being viewed, channel positions can be skipped.

1 From the **Setup** menu, highlight **Installation** and press ENTER.

2 Press ▲ or ▼ to select **Channel Options** and press ENTER. The list of channels will appear.



3 Press ▲ or ▼ to select a channel position to be skipped and press ENTER. A tick will appear in the box.To remove the tick, press ENTER again.

To add a channel to the channel memory:

Highlight the checked box next to the channel number you want to add, and then press ENTER to remove the tick.

To manually add digital subchannels on a physical channel:

Use the Channel Numbers and the Dash (100) on the remote control to enter the channel number (for example, 56–1).
If the channel is found, the number will be added to the list and the box will be unchecked.
If the channel is not found, a message will appear.

***Note:** Skipped channels cannot be selected with CH ▲ or CH ▼; however, they can still be accessed using the number keys on the remote control.*

(continued)

Setting AV Input mode

This setting determines the configuration of the shared AV input on your TV. You can set this input for either **ColorStream HD** or **Video**.

1 From the **Preferences** menu, highlight **AV Input**.

2 Press ◀ or ▶ to select your desired setting.

Note: *If you select the wrong setting, picture will have no color or be fuzzy.*

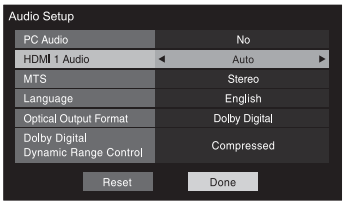
Setting the HDMI® audio mode

To set the HDMI audio mode:

1 Press MENU and open the **Sound** menu.

2 Highlight **Audio Setup** and press ENTER.

3 Press ▲ or ▼ to select **HDMI 1 Audio** and then press ◀ or ▶ to select the HDMI 1 audio mode (**Auto**, **Digital**, or **Analog**). (**Auto** is the recommended mode.) See "Connecting an HDMI or DVI device to the HDMI input" (☞ page 16).



Mode	Description
Auto	When viewing the HDMI 1 input, if digital audio from the HDMI input is available, it will be output. If not, the TV will automatically detect and output analog audio from the PC Audio input.
Digital	When viewing the HDMI 1 input, digital audio from the HDMI input will be output.
Analog	When viewing the HDMI 1 input, analog audio from the PC Audio input will be output.

4 To save your settings, highlight **Done** and press ENTER.

Note: *Because the PC and HDMI-1 inputs share the same set of analog audio inputs, the* ***PC Audio*** *menu setting influences the* ***HDMI 1 Audio*** *menu setting. If* ***PC Audio*** *is set to "****No****," the* ***HDMI 1 Audio*** *setting changes to "****Auto****." If* ***PC Audio*** *is set to "****Yes****," the* ***HDMI 1 Audio*** *setting is set to "****Digital****" and is grayed out in the menu. (Also see item 2 on page 12 and "Setting the PC Audio" on page 43.)*

(continued)

Viewing the digital signal meter

You can view the digital signal meter in the ANT/CABLE digital TV input source only.

To view the digital signal meter:

1. Press MENU and open the **Setup** menu.
2. Highlight **Installation** and press ENTER.
3. A new set of Installation menu icons will appear. Open the **Terrestrial** menu, highlight **Signal Meter**, and press ENTER.
4. Press ▲▼◀▶ to select the antenna input and digital channel whose signal you want to check.

Note:

- *The physical digital channel number listed in the Signal Meter screen may not correspond to a virtual TV channel number. Contact your local broadcasters to obtain the RF channel numbers for your local digital stations.*
- *The signal strength does not change between virtual channels on the same physical channel.*

To close the screen and return to the Terrestrial menu:

Highlight **Done** and press ENTER.

To return to normal viewing:

Press EXIT.

Setting the time zone

The Time Zone setup will allow you to specify the correct time zone for your region. This feature will allow the TV status information to show the correct time zone information (☞ page 49).

To set the time zone:

1. From the **Setup** menu, highlight **Installation** and press ENTER. A new set of Installation menu icons will appear.
2. Highlight **Time Zone**, and press ENTER.
3. Press ◀ or ▶ to select the region, highlight **Done**, and then press ENTER.

After the time zone has been set, you will be asked to set the current Daylight Saving Time status.

To set the Daylight Saving Time status:

1. Press ◀ or ▶ to select **Yes** or **No**, highlight **Done**, and then press ENTER.

Viewing the system status

To view the system status:

1. Press MENU and open the **Setup** menu.
2. Highlight **Installation** and press ENTER.
3. A new set of Installation menu icons will appear. Open the **System Status** menu, highlight **System Information**, and press ENTER.
4. Press ◀▶ to scroll through the menu bar to select the **Factory Defaults** or **Support Information** and view the related information.

To close the screen and return to the Installation menu:

Highlight **Done** and press ENTER.

To return to normal viewing:

Press EXIT.

Reset Factory Defaults

To reset all settings and channels to their factory default values:

1. Press MENU and open the **Setup** menu.
2. Highlight **Installation** and press ENTER. A new set of Installation menu icons will appear.
3. Open the **System Status** menu, highlight **System Information**, and press ENTER.
4. Press ◀▶ to scroll through the menu bar to select **Factory Defaults**.
5. Highlight **Yes** and press ENTER.
6. (If PIN code has been set, enter your PIN code. Press ◀ or ▶ to select **Done** and press ENTER.) A warning message will appear, select **Yes** and press ENTER, the TV will turn off automatically after a few seconds. After the TV turns off, unplug the TV power cord and then plug it in again to complete the reset process.

To cancel the reset:

Select **No** and press ENTER in step 5 above.

Selecting the video input source to view

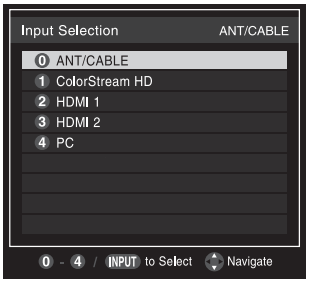
To select the video input source to view:

1 Press INPUT on the remote control or TV control panel.

2 And then either:

a) Press 0–4; or
b) Repeatedly press ▲▼ on the remote control and then press ENTER to change the input; or
c) Repeatedly press INPUT on the remote control or TV control panel to change the input.

The current signal source displays in the top right corner of the **Input Selection** screen.

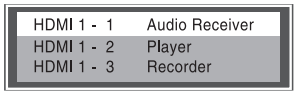


Note:

- *You can label the video input sources according to the specific devices you have connected to the TV (☞ "Labeling the video input sources" at right).*
- *Sources can be "hidden" (☞ "Labeling the video input sources" at right).*
- *"No Video Signal" will appear randomly on the screen if no signal is received in video input mode.*
- *If CEC device is connected to a HDMI input, the REGZA-LINK icon will appear.*

If a REGZA-LINK device with HDMI switching capability (e.g. Audio Receiver) is connected to the HDMI input:

Press INPUT on the remote or TV control panel repeatedly to highlight **HDMI 1** or **HDMI 2**.
If the connected CEC device has any connected devices, a separate device selection popup window will appear.



Press INPUT repeatedly to highlight the desired input source, and then press EXIT.

Note:

- *When selecting REGZA-LINK input sources from the popup window using INPUT, some REGZA-LINK devices may automatically turn on.*
- *When selecting input sources using ▲▼, you will have to press ENTER to actually select a particular device from the popup window.*

Labeling the video input sources

You can label each video input source according to the type of device you connected to each source, from the following preset list of labels:

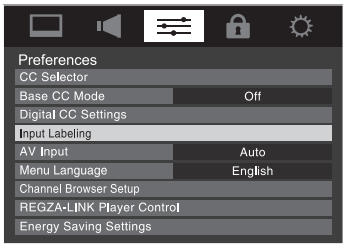
- – – (*default label*)
- Audio Receiver
- Cable
- Compact Disc
- DTV
- DVD
- Game Console
- HDMI Switch (HDMI inputs only)
- Laser Disc
- Satellite/DSS
- VCR
- Video Recorder
- Hide (to hide an unused input in the **Input Selection** screen and in the Channel Browser™ Inputs list)

Note: *If you select PC in the Input Selection screen, you can choose only "– –", "Game Console", or "Hide" as the label.*

To label the video input sources:

1 Press MENU and open the **Preferences** menu.

2 Highlight **Input Labeling** and press ENTER.



(continued)

3 Press ▲ or ▼ to highlight the video source you want to label.

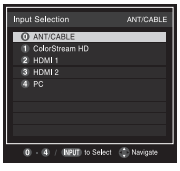


4 Press ◀ or ▶ to select the desired label for that input source. If a particular input is not used, you can select **Hide** as the label, which will cause that input to be "grayed out" in the Input Selection screen and skipped over when you press INPUT on the remote control.

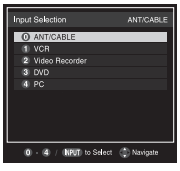
5 To save the new input labels, highlight **Done** and press ENTER.
To revert to the factory default labels, highlight **Reset** and press ENTER.

Input labeling example:

The screen below left shows the default **Input Selection** screen (with none of the inputs labeled as a specific device). The screen below right is an example of how you could label the inputs if you connected a VCR to ColorStream HD, a video recorder to HDMI 1, and a DVD player to HDMI 2.



Input Selection screen with no inputs labeled.



Input Selection screen with all inputs labeled.

To clear the input labels:

1 Press MENU and open the **Preferences** menu.

2 Highlight **Input Labeling** and press ENTER.

3 Highlight **Reset** and press ENTER.

Tuning channels

Tuning channels using the Channel Browser™

The Channel Browser™ provides an easy navigation interface for all your channels and inputs. This feature allows you to:

- Navigate the contents of all of your inputs.
- Keep a list of your favorite channels (see "Favorites Browser," below).
- Keep a history of the last 32 channels or inputs viewed.
- Quickly surf and tune your recently viewed channels/inputs from the Channel Browser™ History List (illustrated on the next page).
- Surf via Browse mode (to immediately tune channels as you highlight them in the Channel Browser™) or Select mode (to surf over channels in the Channel Browser™ before you select one to tune).
- Quickly change inputs from the Inputs List.
- Quickly select REGZA-LINK devices from the REGZA-LINK List.

Favorites Browser

The Favorites Browser allows you to quickly set up a favorite channels/inputs list that is integrated into the Channel Browser™.

To add a favorite channel/input:

1 Tune to the channel or input.

2 Press and hold FAV for 3 seconds.

Note: *Additions are added to the beginning of the Favorites list on the left side of the Channel Browser™.*

To delete a favorite channel/input:

1 Press FAV to open the Favorites browser list.

2 Highlight the channel or input to delete by pressing BACK ◀ or NEXT ▶.

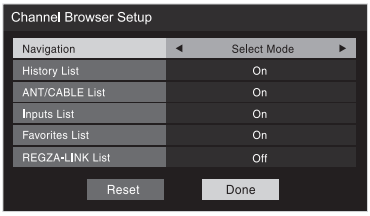
3 Press and hold 100 for 3 seconds. The channel/input will be removed from the Favorites list.

To set up the Channel Browser™:

1 From the **Preferences** menu, highlight **Channel Browser Setup** and press ENTER.

2 Press ▲ to highlight **Navigation**, and then press ◀ or ▶ to select either **Browse Mode** or **Select Mode**.

(continued)



3 Press ▼ to highlight **History List**, and then press ◀ or ▶ to select the setting you prefer: either **On**, or **Off**.
Note: History List *will be cleared every time the TV is powered off.*

4 Press ▼ to highlight **ANT/CABLE List**, and then press ◀ or ▶ to select **On** or **Off**.

5 Press ▼ to highlight **Inputs List**, and then press ◀ or ▶ to select **On** or **Off**.

6 Press ▼ to highlight **Favorites List**, then press ◀ or ▶ to select **On** or **Off**.

7 Press ▼ to highlight **REGZA-LINK List**, and then press ◀ or ▶ to select **On** or **Off**.

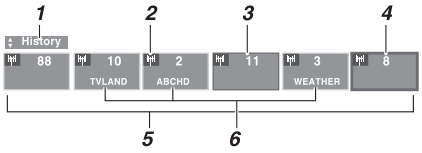
Note: *REGZA-LINK List will be automatically grayed out and set to* ***Off*** *when* ***Enable REGZA-LINK*** *is switched to* ***Off****. (See "To set the REGZA-LINK Setup" on page 49 for more information.)*

8 To save your entries, highlight **Done** and press ENTER. To return to factory defaults, highlight **Reset** and press ENTER.

To open the Channel Browser™:

- Press BACK ◀ or NEXT ▶ on the remote control.
- Press BACK ◀ to surf backward through the previously tuned 32 channels in the History list, the channels in the ANT/ CABLE channel list, the inputs in the Inputs list, the REGZA-LINK devices in the REGZA-LINK list, or the favorite channels/inputs in the Favorites list.
- Press NEXT ▶ to surf forward through the channel History, the ANT/CABLE channel list, the Inputs list, the REGZA-LINK list, or the favorite channels/inputs in the Favorites list.

Elements of the Channel Browser™



1 Current list (**History**, **ANT/CABLE**, **Inputs**, **Favorites**, or **REGZA-LINK**)
2 Input type
3 Channel or input currently being viewed
4 Channel or input that is currently highlighted in the browser
5 Channels stored in the History List
6 Channel labels

To toggle among the available lists:

After opening the Channel Browser™, press ▲ or ▼ to toggle among **History**, **ANT/CABLE**, **Inputs**, **Favorites**, and **REGZA-LINK**.

Note:

- *The Channel Browser™ opens in* ***History List*** *by default. Once another list has been selected, the Channel Browser™ will open in the last selected list.*
- *If all lists are turned off, pressing BACK ◀, NEXT ▶, or FAV will not display the Channel Browser™. If* ***Favorites List*** *is turned off, FAV will have no effect.*
- *Pressing FAV will bring up the Channel Browser™ Favorites list regardless of the last selected list in the Channel Browser™.*

To tune to a channel or input in Browse mode:

1 While watching TV, press BACK ◀ or NEXT ▶ to open the Channel Browser™ and surf back to a previous item or surf forward to the next item in the list. In **Browse** mode, when you stop on an item in the Channel Browser™, it will be highlighted and the TV will automatically tune to the channel or input.

2 Press EXIT to close the Channel Browser™.

(continued)

To tune to a channel or input in Select mode:

1 While watching TV, press BACK ◀ or NEXT ▶ to open the Channel Browser™ and surf back to a previous item or forward to the next item in the list.
In **Select** mode, when you stop on an item in the Channel Browser™, it will be highlighted but you must press ENTER to tune the TV to the highlighted item.

2 Press ENTER to tune the TV to the highlighted item.

3 Press EXIT to close the Channel Browser™.

Adding and clearing channels and inputs in the History List

Adding channels and inputs to the History List:

As a channel or input is tuned, the Channel Browser™ adds it to the History List and displays it on the "right side" of the Channel Browser™. Previously tuned channels/inputs are "shifted" to the left, eventually moving off the left side. Press BACK ◀ to surf backward through the previously tuned channels/inputs. Any channel or input that is tuned repeatedly will not be repeated in the History List, but instead is moved to the end of the list on the right side of the Channel Browser™.

The Channel Browser™ will store the following channels:

- All channels that are tuned using the numeric buttons on the remote control.
- All channels that are tuned using CH ▲ or CH ▼ on the remote control.

Note: *Whenever an item is selected that cannot be tuned (for various reasons), the TV will automatically tune to the previously viewed channel or input.*

Clearing channels from the History List:

- Reconfiguring the **ANT/CABLE** input will clear the History List.

  Note: *See page 24 for details on configuring the antenna input.*

- Once 32 channels or inputs are stored in the History List, the oldest item will be removed from the list when a new channel or input is tuned.
- Turning off the TV will clear the History List.

Setting the Channel Tuning Mode

This feature allows you to choose how tuning will be handled for analog and digital channels when the TV is in Antenna mode.

Note: *To use this feature, the* ***Input Configuration*** *must be set to* ***Antenna*** *(☞ page 24).*

The channel tuning mode has three options.

Mode	Description
Standard	Both analog and digital channels can be tuned normally
Auto (default)	Digital channels will have priority when manually entering a channel number using the Channel Number (0-9) on the remote control, analog channels can still be tuned by CH ▲ / CH ▼, if available
Digital	Only digital channels can be tuned

Note: *Digital mode will be most useful after analog channels are shut down by the government in 2009.*

To set the Channel Tuning Mode:

1 From the **Setup** menu, highlight **Installation** and press ENTER. A new set of **Installation** menu icons will appear.

2 Open the **Terrestrial** menu, highlight **Channel Tuning Mode**, and then press ▶ to select your desired mode.

Note:

- *The Channel Options windows as well as the Channel Browser ANT/CABLE list will be updated automatically when you change the mode. Also, the History List will be cleared, but the Favorites List will be saved.*
- *Even if the Channel Tuning Mode is set to* ***Digital****, analog channel 3 will still be the default channel to prevent the initial case where no digital channels have been found in prior channel scans. (Channel Options will not have anything listed until a scan is done.)*

(continued)

Tuning to the next programmed channel

To tune to the next programmed channel:

Press [CH ▲] or [CH ▼] on the remote control or TV control panel.

Note: *This feature will not work unless you program channels into the TV's channel memory (☞ page 24).*

Tuning to a specific channel (programmed or unprogrammed)

Tuning analog channels:

Press the Channel Number (0–9) on the remote control. For example, to select channel 125, press 1, 2, 5, then (ENTER).

Tuning digital channels:

Press the Channel Number (0–9) on the remote control, followed by the dash ([-/--]) button and then the sub-channel number. For example, to select digital channel 125-1, press 1, 2, 5, –, 1, then (ENTER).

Note: *If a digital channel is not programmed—either through the automatic channel scan (☞ page 24) or the Channel add function (☞ page 25)—you will have to tune the RF channel using the Channel Number and dash ([-/--]) on the remote control.*

Switching between two channels using Channel Return

The Channel Return feature allows you to switch between two channels without entering an actual channel number each time.

1. Select the first channel you want to view.
2. Select a second channel using the Channel Number buttons (and the dash ([-/--]) button if selecting a digital channel).
3. Press CH RTN on the remote control. The previous channel will display. Each time you press CH RTN, the TV will switch back and forth between the last two channels that were tuned.

   Note: *If you press CH RTN from a non-antenna input, the TV will return to the last-viewed input.*

Switching between two channels using SurfLock™

The SurfLock™ feature temporarily "memorizes" one channel to the CH RTN button, so you can return to that channel quickly from any other channel by pressing CH RTN. To memorize a channel to the CH RTN button:

1. Tune the TV to the channel you want to program into the CH RTN button.
2. Press and hold CH RTN for about 2 seconds until the message "Memorized" appears on-screen. The channel has been programmed to the CH RTN button.
3. You can then change channels repeatedly, and when you press CH RTN, the memorized channel will be tuned.

The TV will return to the memorized channel one time only. Once you press CH RTN and then change channels again, the CH RTN memory will be cleared and the button will function as Channel Return, by switching back and forth between the last two channels that are tuned.This feature also works for external inputs.

Selecting the picture size

You can view many program formats in a variety of picture sizes—**Natural**, **TheaterWide 1**, **TheaterWide 2**, **TheaterWide 3**, **Full**, **4:3 HD**, **Native**, and **Dot by Dot** (available in PC Mode Only).

Note: *The "picture size" illustrations are examples only. The format of the image (in any of the picture sizes) will vary depending on the format of the signal you are currently watching. Select the picture size that displays the current program the way that looks best to you.*

You can save separate picture size preferences for each input on your TV.

To select the picture size using the remote control:

1. Press PIC SIZE on the remote control.
2. While the **Picture Size** screen is open, you can do one of the following to select the desired picture size:
   - Repeatedly press PIC SIZE.
   - Press the corresponding Number button (0–6) while the **Picture Size** screen is open.
   - Press ▲ or ▼ while the **Picture Size** screen is open.

(continued)

To select the picture size using the menus:

1 Select **Picture Size** in the **Theater Settings** menu.

2 Press ◀ or ▶ to select the desired picture size setting.

3 Highlight **Done** and press ENTER.

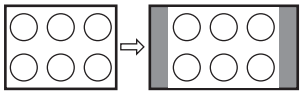
Note: *Some of the picture sizes may not be available depending on the receiving signal format (those will be "grayed out" in the* ***Picture Size*** *screen).*

Using these functions to change the picture size (i.e., changing the height/ width ratio) for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

Note: *If you select one of the TheaterWide® picture sizes, the top and bottom edges of the picture (including subtitles or captions) may be hidden. To view the hidden edges, either scroll the picture (****TheaterWide 2*** *and* ***3*** *only) or try viewing the program in* ***Full*** *or* ***Natural*** *picture size.*

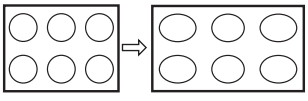
Picture Size

Natural



Some program formats will display with sidebars and/or bars at the top and bottom.

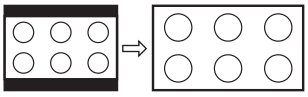
TheaterWide 1 (for 4:3 format programs)



The center of the picture remains close to its original proportion, but the left and right edges are stretched wider to fill the screen.

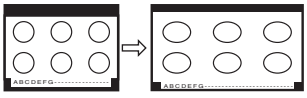
Picture Size

TheaterWide 2 (for letter box programs)



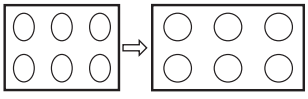
The top and bottom edges of the picture may be hidden*.

TheaterWide 3 (for letter box programs with subtitles)



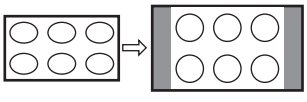
The top and bottom edges are hidden*.

Full (for 16:9 [480i, 480p] source programs only)



- If receiving a squeezed 4:3 format program, the picture is stretched wider to fill the width of the screen, but not stretched taller.
- None of the picture is hidden.

4:3 HD (for 720p, 1080i, and 1080p program sources only)

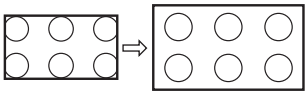


Picture is not distorted from original size.

(continued)

Picture Size

Native (for 480i (HDMI), 480p (HDMI), 720p, 1080i, and 1080p signal programs)

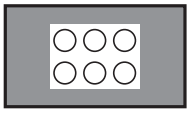


- If receiving a 480i (HDMI), 480p (HDMI), 720p, 1080i, or 1080p signal program, Native mode scales the video to display the entire picture within the borders of the screen (i.e. no overscanning).
- This is especially useful for external HD sources such as DVHS movies, or PC graphics.

Note:

- *This mode is supported only for HDMI (1080p,1080i, 720p, 480p, and 480i), ColorStream (1080i and 720p), and ANT/ CABLE (digital) inputs (1080p,1080i, and 720p).*
- *Depending on the input signals, the border of the picture may be hidden, displayed in black, or noisy.*

Dot by Dot (for VGA, SVGA, XGA, WXGA, and SXGA sources only)



The "Dot by Dot" picture is non-scaling display. Depending on the input signal formats, picture is displayed with sidebars and/or bars at the top and bottom. (Example: VGA input source)

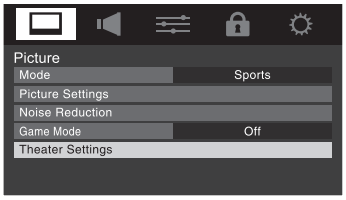
* *To view the hidden areas (such as subtitles or captions), see below "Scrolling the TheaterWide® picture".*

Scrolling the TheaterWide® picture (TheaterWide 2 and 3 only)

You can set separate scroll settings for the TheaterWide 2 and TheaterWide 3 modes for each input.

To set the scroll settings:

1. Press MENU and open the **Picture** menu.
2. Highlight **Theater Settings** and press ENTER.



3. In the **Picture Size** field, select either **TheaterWide 2** or **TheaterWide 3** (you cannot scroll in any other mode).
4. Press ▼ to highlight the **Picture Scroll** field.
5. Press ◀ or ▶ to scroll the picture up and down as needed.
6. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

Note: *When receiving a signal at 480i resolution, the picture scroll function may have limited adjustment range.*

Using the auto aspect ratio feature

When the auto aspect ratio feature is set to **On**, the TV will automatically select the picture size when one of the following input sources is received:

- A 480i, 480p, 720p, 1080i digital signal from the **ANT/CABLE** input
- A 480i signal from the **VIDEO** or **ColorStream HD** input
- A 480i, 480p, 720p, 1080i, 1080p, or VGA (60Hz) signal from the **HDMI 1/2** input

Aspect ratio of signal source	Automatic aspect size (automatically selected when Auto Aspect is On)
4:3 normal	Natural (with sidebars)
4:3 letter box	TheaterWide 2
16:9 full	Full
Not defined (no ID-1 data or HDMI aspect data)	The current picture size you set under "Selecting the picture size" on page 32.

Note: *The auto aspect ratio feature is not applicable to PC input.*

(continued)

To turn on the auto aspect ratio feature:

1. Press MENU and open the **Picture** menu.
2. Highlight **Theater Settings** and press ENTER.
3. In the **Auto Aspect Ratio** field, select **On**.
4. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

To turn off the auto aspect ratio feature:
Select **Off** in step 3 above.

Selecting the cinema mode

When you view a DVD (3:2 pulldown processed) from a DVD player connected to the **VIDEO**, **ColorStream HD** (component video), or **HDMI** inputs on the TV, smoother motion can be obtained by setting the **Cinema Mode** to **Film**.

To set the Cinema Mode to Film:
(available for 480i and 1080i signals)

1. Press MENU and open the **Picture** menu.
2. Highlight **Theater Settings** and press ENTER.
3. In the **Cinema Mode** field, select **Film**.
4. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

To set the Cinema Mode to Video:
Select **Video** in step 3 above.

Using the FREEZE feature

To use the FREEZE feature:

1. When viewing the TV, press FREEZE to make the picture a still picture.
2. To return to the moving picture, press FREEZE again (or any other button).

Note: *If the TV is left in FREEZE mode for more than 15 minutes, the FREEZE mode will automatically be released and the TV will return to moving picture.*

Using the FREEZE function for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

Adjusting the picture

Selecting the picture mode

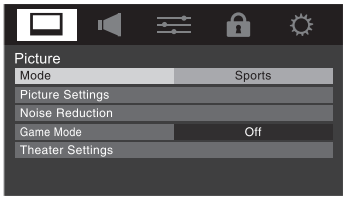
You can select your desired picture settings from four different modes, as described below.

Mode	Picture Quality
Sports	Bright and dynamic picture (factory setting)
Standard	Standard picture settings (factory setting)
Movie	Lower contrast for darkened room (factory setting)
PC	Designed for viewing of PC tables and documents
Preference	Your personal preferences

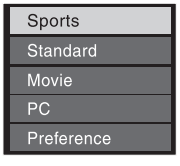
Note: *PC mode is available for HDMI and PC inputs only (grayed out for other input sources).*

To select the picture mode using the menu system:

1. Press MENU and open the **Picture** menu.
2. Highlight **Mode** and press ENTER.



3. Press ▲ or ▼ to select the picture mode you prefer and press ENTER.



(continued)

Adjusting the picture quality

You can adjust the picture quality (Contrast, Backlight, DynaLight™, Brightness, Color, Tint, and Sharpness) to your personal preferences.

Selection	Pressing ◀	Pressing ▶
Contrast	lower	higher
Backlight*	darker	lighter
DynaLight**	On/Off	On/Off
Brightness	darker	lighter
Color	paler	deeper
Tint	reddish	greenish
Sharpness	softer	sharper

* Backlight
This feature adjusts the brightness of the entire screen. When in video mode and no signal is input, this will automatically be set to 0. (Settings are stored in memory.)

** DynaLight
This function automatically strengthens the black coloring of dark areas in the video according to the level of darkness.

To adjust the picture quality:

1. Press MENU and open the **Picture** menu.
2. Highlight **Picture Settings** and press ENTER.
3. Press ▲ or ▼ to select the picture quality you want to adjust (**Contrast**, **Backlight**, **DynaLight**, **Brightness**, **Color**, **Tint**, or **Sharpness**), and then press ◀ or ▶ to adjust the setting, as described in the table above.
4. To save the new settings, highlight **Done** and press ENTER. You can use any of the picture modes (☞ "Selecting the picture mode") as a starting point for adjusting the picture settings.
   To revert back to the base mode that you began adjusting the picture settings from, highlight **Reset** and press ENTER.

The picture qualities you adjusted are automatically saved in the **Preference** mode (☞ "Selecting the picture mode") until **Reset** is selected.

Using the closed caption mode

Base closed captions

The closed caption mode has two options:
- Captions—An on-screen display of the dialogue, narration, and sound effects of TV programs and videos that are closed captioned (usually marked "CC" in program guides).
- Text—An on-screen display of information not related to the current program, such as weather or stock data (when provided by individual stations).

To view captions or text:

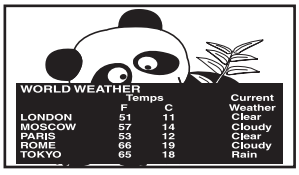
1. Press MENU and open the **Preferences** menu, highlight **Base CC Mode**.
2. Press ◀ or ▶ to select the desired closed caption mode and press EXIT.

- **To view captions:**
  Highlight **CC1**, **CC2**, **CC3**, or **CC4**. (**CC1** displays translation of the primary language in your area.)



Note: *If the program or video you selected is not closed captioned, no captions will display on-screen.*

- **To view text:**
  Highlight **T1**, **T2**, **T3**, or **T4**.



Note: *If text is not available in your area, a black rectangle may appear on screen. If this happens, set the Base CC Mode to* ***Off****.*

- **To turn off the closed caption mode:**
  Select **Off** in step 2 above.

Note: *A closed caption signal may not display in the following situations:*
- *When a videotape has been dubbed*
- *When the signal reception is weak*
- *When the signal reception is non-standard*

(continued)

Digital CC Settings

You can customize the closed caption display characteristics by changing the background color, opacity, text size, type, edge, and color.

Note:

- *This feature is available for digital channels only.*
- *You cannot set the Caption Text and Background as the same color.*

To customize the closed captions:

1. Press MENU and open the **Preferences** menu.
2. Highlight **Digital CC Settings** and press ENTER.
3. Press ▲ or ▼ to highlight the characteristic you want to change, and then press ◀ or ▶ to select the format for that characteristic (see table below).
4. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

Caption Size	Auto, Small, Standard, Large
Caption Text Type	Auto, Default, Mono w. Serif, Prop. w. Serif, Mono w/o Serif, Prop. w/o Serif, Casual, Cursive, Small Capitals
Caption Text Edge	Auto, None, Raised, Depressed, Uniform, Left Drop Shadow, Right Drop shadow
Caption Text Color	Auto, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan
Text Foreground Opacity	Auto, Transparent, Translucent, Flashing, Solid
Background Color	Auto, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan
Text Background Opacity	Auto, Transparent, Translucent, Flashing, Solid
Caption Text Edge Color	Auto, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan

CC Selector

You can use the **CC Selector** to temporarily override the default analog caption mode (set in **Base CC Mode**) for a particular channel. However, once you change to another analog channel, the closed caption setting will automatically change back to the current **Base CC Mode** setting.

You can also use the **CC Selector** to select digital closed caption services (if available). When such services are not available, the **CC Selector** presents a default list of services. If the selected service is not available, the next best service will be used instead.

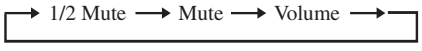
To select closed captions:

1. Press MENU and open the **Preferences** menu.
2. Highlight **CC Selector** and press ENTER.
3. Press ▲ or ▼ to select **Closed Caption**, and then press ◀ or ▶ to select the desired service.
4. Press EXIT.

Adjusting the audio

Muting the sound

Press MUTE on the remote control to partially reduce (1/2 MUTE) or turn off (MUTE) the sound. Each time you press MUTE, the mute mode will change in the following order:



If the closed caption mode is set to **Off** when you select "MUTE" mode, the closed caption feature is automatically activated if the TV program is Closed Captioned. To mute the audio without automatically activating the closed caption feature, use VOL to set the volume to 0. See "Using the closed caption mode" (☞ page 36) for more information on closed caption modes.

Using the digital audio selector

You can use the **Digital Audio Selector** to conveniently switch between audio tracks on a digital channel (for those channels that have multiple audio tracks). This temporarily overrides the audio track chosen by the language option under **Audio Setup** (☞ "Selecting stereo/SAP broadcasts" on page 38).

To use the digital audio selector:

1. Press MENU and open the **Sound** menu.
2. Highlight **Digital Audio Selector** and press ENTER.

(continued)



3 Press ▲ or ▼ to select **Audio**, and then press ◀ or ▶ to select the desired service.

4 Press EXIT.

Selecting stereo/SAP broadcasts

The multi-channel TV sound (MTS) feature allows you to output high-fidelity stereo sound. MTS also can transmit a second audio program (SAP) containing a second language, music, or other audio information (when provided by individual stations).

When the TV receives a stereo or SAP broadcast, the word "STEREO" or "SAP" appears on-screen when RECALL is pressed.The MTS feature is only available for analog signals on the **ANT/CABLE** input.

To listen to stereo sound:

1 Press MENU and open the **Sound** menu.

2 Highlight **Audio Setup** and press ENTER.

3 In the **MTS** field, select **Stereo**.

4 To save the new settings, highlight **Done** and press ENTER.
To reset the settings to the factory defaults, highlight **Reset** and press ENTER.

Note:

- *You can typically leave the TV in **Stereo** mode because it will automatically output the type of sound being broadcast (stereo or monaural).*
- *If the stereo sound is noisy, select **Mono** to reduce the noise.*

To listen to an alternate language on an ATSC digital station (if available):

Highlight the **Language** field in step 3 above, and then press ◀ or ▶ to select the language you prefer.

To listen to a second audio program on an analog station (if available):

Select **SAP** in step 3 above.

Note:

- *A second audio program (SAP) can be heard only on those TV stations that offer it. For example, a station might broadcast another language as a second audio program. If you have SAP on, you will see the current program on the screen but hear the other language instead of the program's normal audio.*
- *If you have SAP on and the station you are watching is not broadcasting a second audio program, the station's normal audio will be output. However, occasionally there is no sound at all in **SAP** mode. If this happens, set the **MTS** feature to **Stereo** mode.*

Adjusting the audio quality

You can adjust the audio quality by adjusting the bass, treble, and balance.

To adjust the audio quality:

1 Press MENU and open the **Sound** menu.

2 Highlight **Audio Settings** and press ENTER.

3 Press ▼ or ▲ to highlight the item you want to adjust (**Bass**, **Treble**, or **Balance**).

4 Press ◀ or ▶ to adjust the level.

- ◀ *makes the bass or treble weaker or increases the balance in the left channel (depending on the item selected).*
- ▶ *makes the bass or treble stronger or increases the balance in the right channel (depending on the item selected).*

5 To save the new settings, highlight **Done** and press ENTER. To reset the settings to the factory defaults, highlight **Reset** and press ENTER.

Selecting the optical audio output format

You can use this feature to select the optical audio output format when you connect a Dolby Digital decoder or other digital audio system to the **Optical Audio Out** terminal on the TV (see "Connecting a digital audio system" on page 18).

To select the optical audio output format:

1 Press MENU and open the **Sound** menu.

2 Highlight **Audio Setup** and press ENTER.

3 In the **Optical Output Format** field, select either **Dolby Digital** or **PCM**, depending on your device.

4 To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

(continued)

Using the Dolby® Digital Dynamic Range Control feature

This dynamic range control feature causes the ATSC dynamic range to be further compressed, allowing you to switch from ATSC to analog broadcasts at the same dynamic range.

To use the Dolby Digital Dynamic Range Control:

1 Press MENU and open the **Sound** menu.

2 Highlight **Audio Setup** and press ENTER.

3 In the **Dolby Digital Dynamic Range Control** field, select **Compressed**. When **Standard** is selected, the audio is output with minimal compression.

4 To save the new settings, highlight **Done** and press ENTER.
To revert to the factory defaults, highlight **Reset** and press ENTER.

Note:

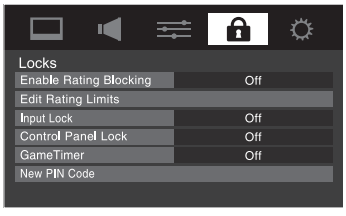
- *This item will be grayed out for NTSC signals, Video, ColorStream, and PC inputs.*
- *The Dolby Digital Dynamic Range Control will function in relation to Optical Output Format (PCM mode).*

Using the Locks menu

The Locks menu includes the Enable Rating Blocking, Edit Rating Limits, Input Lock, Front (Control) Panel Lock, GameTimer and New PIN Code features. You can use these features after entering the correct PIN code.

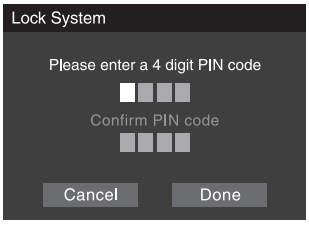
Entering the PIN code

1 Press MENU and highlight the **Locks** menu icon.



2 Press ▼, which displays the PIN code entry screen.

- The **Lock System** screen (below) appears if a PIN code has not been stored. Press the Channel Number buttons to enter a new four-digit code, enter the code a second time to confirm, and press ENTER.



- The **Locks/Active** screen appears if the PIN code is already stored. Use the Number buttons to enter your four-digit code and press ENTER.

If the wrong PIN code is entered, the message "Incorrect PIN code, please try again!" appears. Highlight **Retry** and press ENTER. Enter the code again and press ENTER.

When the correct PIN code is entered, the **Locks** menu opens.

Note:

PIN code cannot be set to "0000".

If you cannot remember your PIN code

While the PIN code entering screen is displayed, press RECALL four times within five seconds. The PIN code will be cleared and you can enter a new PIN code.

Changing your PIN code

1 Press MENU and highlight the **Locks** menu icon.

2 Press ▼ to display the PIN code entering screen.

3 Enter your four-digit PIN code and press ENTER.

4 Press ▼ to highlight **New PIN Code** and press ENTER.

5 Press the Number buttons to enter a new four-digit code. Reenter the PIN code to confirm it.

6 Press ENTER. The new PIN code is now active.

Note:

PIN code cannot be set to "0000".

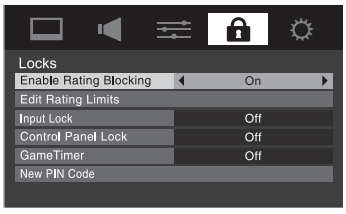
Blocking TV programs and movies by rating (V-Chip)

Some TV programs and movies include signals that classify the content of the program (violence, sex, dialog, language). The V-Chip feature in this TV detects the signals and blocks the programs according to the ratings you select. (For rating descriptions, see the tables on the next page.)

(continued)

To block and unblock TV programs and movies:

1 Press MENU and highlight the **Locks** menu icon.
2 Press ▼ to display the PIN code entering screen.
3 Enter your four-digit PIN code and press ENTER.
4 Press ▼ to highlight **Enable Rating Blocking**.
5 Press ▶ to select **On**, and then press ENTER.



6 Press ▼ to highlight **Edit Rating Limits** and press ENTER. The **Edit Rating Limits** screen appears.
7 Press ▲▼◀▶ and then press ENTER to select the level of blocking you prefer. A box with an "✕" is a rating that will be blocked. As you highlight a rating, a definition for the rating appears at the bottom of the screen.
8 When done selecting the ratings you want to block, highlight **Done** and press ENTER.

Note: *Above selection of blocking level is for U.S V-Chip system. For Canada rating, you can highlight the "Canada RS" then press ENTER, another "Canadian Rating Menu" screen will appear.*

Downloading an additional rating system for blocking TV programs and movies

In the future, an additional rating system may become available for use in selectively blocking programs.

Note: *The currently tuned station must be receiving a digital signal before an additional rating system can be downloaded.*

To download the additional rating system (if available):

1 Press MENU and highlight the **Locks** menu icon.
2 Press ▼ to display the PIN code entering screen.
3 Enter your four-digit PIN code and press ENTER.
4 Press ▼ to highlight **Enable Rating Blocking**.
5 Press ▶ to select **On**, and press ENTER.
6 Press ▼ to highlight **Edit Rating Limits** and press ENTER. The **Edit Rating Limits** screen appears.
7 Highlight **Alt RS** and press ENTER. The **Edit Alternate Ratings** screen will appear.

Note:

- *The **Alt RS** button will only be available if an additional rating system is currently available.*
- *It may take several minutes for the TV to download the additional rating system.*
- *The information displayed in the **Alternate Ratings** screen will depend on the configuration of the additional rating system available at the time of download.*

8 Press ▲▼◀▶ and then press ENTER to select the level of blocking you prefer. A box with an "✕" is a rating that will be blocked.
9 When you are finished selecting the ratings you want to block, highlight **Done** and press ENTER.
10 In the **Edit Rating Limits** screen, highlight **Done** and press ENTER.

Note:

- *The additional rating system can only be downloaded one time. You will not be able to download any updates to the rating system should such updates become available.*
- *The additional rating system is not designed, transmitted, or controlled by the TV or Toshiba, nor is the availability of an additional rating system determined or controlled by Toshiba. Similarly, the rating of programs in an additional rating system is not determined, transmitted, or controlled by the TV or Toshiba.*
- *The additional rating system is an evolving technology; therefore, availability, content, and format may vary.*

(continued)

Independent rating system for broadcasters	
Ratings	**Description and Content themes**
TV-MA	Mature Audience Only (This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.) **L**) Crude or indecent language **S**) Explicit sexual activity **V**) Graphic violence
TV-14	Parents Strongly Cautioned (This program contains some material that many parents would find unsuitable for children under 14 years of age.) **D**) Intensely suggestive dialog **L**) Strong, coarse language **S**) Intense sexual situations **V**) Intense violence
TV-PG	Parental Guidance Suggested (This program contains material parents may find unsuitable for younger children.) **D**) Some suggestive dialog **L**) Infrequent coarse language **S**) Some sexual situations **V**) Moderate violence
TV-G	General Audience (Most parents would find this program suitable for all ages.)
TV-Y7, TV-Y7FV	Directed to Older Children (This program is designed for children age 7 and above. Note: Programs in which fantasy violence may be more intense or more combative than other programs in this category are designated TV-Y7FV.)
TV-Y	All Children (This program is designed to be appropriate for all children.)

Independent rating system for movies	
Ratings	**Description and Content themes**
X	X-rated (For adults only)
NC-17	Not intended for anyone 17 and under
R	Restricted (Under 17 requires accompanying parent or adult)
PG-13	Parents Strongly Cautioned (Some material may be inappropriate for children under 13)
PG	Parental Guidance Suggested (Some material may not be suitable for children)
G	General Audience (Appropriate for all ages)

Note:

- *If you place an "✕" in the box next to "**'None' Rated**," programs rated "**None**" will be blocked; however, programs that do not provide any rating information will not be blocked.*
- *To display the rating of the program you are watching, press RECALL on the remote control. If it is rated "None," the word "**NONE**" appears in the **RECALL** screen (as shown below right). If rating information is not provided, no rating will appear in the **RECALL** screen.*

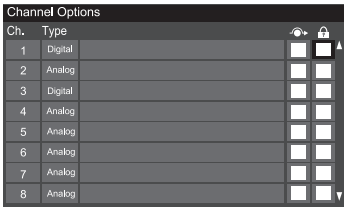


Locking channels

With the Lock feature, you can lock specific channels. The locked channels can only be accessed by entering the PIN.

To lock channels:

1. From the **Setup** menu, highlight **Installation** and press ENTER.
2. Press ▲ or ▼ to select **Channel Options** and press ENTER. The list of channels will appear.



3. Press ▶ and then ▲ or ▼ to select a channel in the lock column.
4. PIN code entry will be required to set a locked channel.
   Note: *If the PIN code has not been set yet, a warning message will appear.*
5. A tick will appear in the box.
   To remove the tick, press ENTER again.

(continued)

Unlocking programs temporarily

If you try to tune the TV to a program that exceeds the rating limits you set, the TV will enter program lock mode and the following message will appear on-screen:

This program exceeds the rating limit you set.
Push 'MUTE' to enter PIN.

You can either temporarily unlock the program or select an unlocked program to watch.

To temporarily unlock the program:

1 Press MUTE.

2 Enter your four-digit PIN code and press ENTER. If the correct code is entered, the program lock mode is released and the normal picture appears. All locking is disabled until the TV is turned off, and will be enabled when the TV is turned on again.

Using the input lock feature

You can use the Input Lock feature to lock the video inputs (**VIDEO**, **ColorStream HD**, **HDMI 1**, **HDMI 2**, and **PC**) and channels 3 and 4. You will not be able to view the input sources or channels until you unlock the inputs.

To lock/unlock the video inputs:

1 From the **Locks** menu, Press ▼ to display the PIN code entering screen.

2 Enter your four-digit PIN code and press ENTER.

3 Press ▼ to highlight **Input Lock** and press ▶ to select the level of video input locking you prefer, as described below.

Mode	Description
Video	Locks VIDEO, ColorStream HD, HDMI 1, HDMI 2, and PC.
Video+	Locks VIDEO, ColorStream HD, HDMI 1, HDMI 2, PC and channels 3 and 4. • Select **Video+** if you play video tapes via an ANT/CABLE input.
Off	Unlocks all video inputs and channels 3 and 4.

4 Press EXIT.

Using the GameTimer®

You can use the GameTimer to set a time limit for playing a video game (30–120 minutes). When the GameTimer expires, the TV enters Input Lock mode and locks out the input source for the video game device.

To set the GameTimer®:

1 From the **Locks** menu, press ▼ to display the PIN code entering screen.

2 Enter your four-digit PIN code and press ENTER.

3 Press ▼ to highlight **GameTimer** and press ▶ to select the length of time until the Input Lock is activated (30, 60, 90, or 120 minutes).

To cancel the GameTimer®:

Select **Off** in step 3 above.

To deactivate the Input Lock once the GameTimer® has activated it:

Set the **Input Lock** to **Off** (☞ "Using the input lock feature" as described).

Note:

- *A message will appear when 10 minutes, 3 minutes, and 1 minute remain on the GameTimer.*
- *If the TV loses power with time remaining on the GameTimer, when power is restored the TV will enter Input Lock mode (as if the GameTimer had been activated) and you will have to deactivate the Input Lock (as described before).*

Using the control panel lock feature

You can lock the control panel to prevent your settings from being changed accidentally (by children, for example). When the control panel lock is **On**, none of the controls on the TV control panel will operate except **POWER**.

To lock the control panel:

1 Press MENU and highlight the **Locks** menu icon.

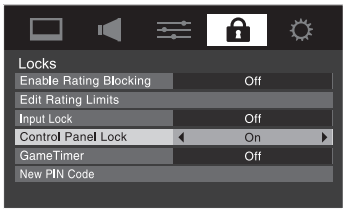
2 Press ▼ to display the PIN code entering screen.

3 Enter your four-digit PIN code and press ENTER.

4 Press ▼ to highlight **Control Panel Lock**.

(continued)

5 Press ▶ to select **On**. When the control panel is locked and any button on the control panel (except **POWER**) is pressed, the message "NOT AVAILABLE" appears.



To unlock the control panel:

Select **Off** in step 5 above, or press and hold the **VOLUME –** button on the TV control panel for about 10 seconds until the volume icon appears.

Using the PC settings feature

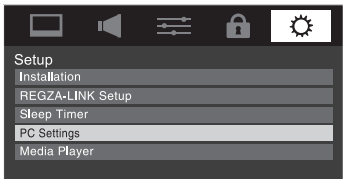
You can view an image from a PC on the TV screen. When a PC is connected to the TV's PC IN terminal, you can use the PC Settings feature to make adjustments to the image. If the edges of the picture are cut off, readjust the **Horizontal Position** and **Vertical Position**. If the picture is affected by interference, readjust the **Clock Phase** and **Sampling Clock**.

To adjust the PC settings:

1 Repeatedly press INPUT to select PC input mode (☞ "Selecting the video input source to view" page 28).

2 Press MENU and open the **Setup** menu.

3 Highlight **PC Settings** and press ENTER.



Note: *If a PC is not connected or there is no pc input signal, this feature will be grayed out in the* ***Setup*** *menu.*

4 Press ▲ or ▼ to highlight the item you want to adjust.

5 Press ◀ or ▶ to make the appropriate adjustments.



Note: *The screen is disrupted momentarily when adjusting the PC settings. This is not a sign of malfunction.*

Mode	Description
Horizontal Position	Moves the picture left/right. The adjustment range is within ±50 from center.*
Vertical Position	Moves the picture up/down. The adjustment range is within ±10 from center.*
Clock Phase	Helps to reduce noise and sharpen the picture. The adjustment range is within ±16 from center.*
Sampling Clock	Helps to reduce noise and minimize periodic vertical stripes on the screen. The adjustment range is within ±10 from center.*
Auto Adjust	Highlight this item then press ENTER to get an optimum adjustment automatically.

* The default settings may vary depending on the input signal format.

Setting the PC Audio

This function allows you to output or mute the sound from your PC when connecting using the PC IN terminal and an analog RGB cable. (☞ page 18)

To set the PC Audio:

1 Press MENU and open the **Sound** menu.

2 Highlight **Audio Setup** and press ENTER.

3 Press ▲ or ▼ to select **PC Audio** and then press ◀ or ▶ to select **No** or **Yes**.

Yes: When viewing the PC input, the audio from the PC Audio input can be heard.
No: When viewing the PC input, there will be no audio.

Note: *Because the PC and HDMI-1 inputs share the same set of analog audio inputs,*

(continued)

*the **PC Audio** menu setting influences the **HDMI 1 Audio** menu setting. If **PC Audio** is set to "**No**," the **HDMI 1 Audio** setting changes to "**Auto**." If **PC Audio** is set to "**Yes**," the **HDMI 1 Audio** setting is set to "**Digital**" and is grayed out in the menu. (Also see item 2 on page 12 and "Setting the HDMI® Audio mode" on page 26.)*

Using the Media Player

Using the Media Player with USB

You can enjoy photos or music contents stored on a USB storage device.

Photo Viewer specifications:

Data type: JPEG Exif ver2.1
File format: JPEG
Maximum photo size: 6 MB
Maximum number of files: 500 / folder
Maximum photo resolution: 4096 x 4096 pixels
Best photo resolution: 1366 x 768 pixels

Music Player specifications:

File format: MP3
Sampling frequency: 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz
Bit rate: from 8 to 320 kbps
Maximum number of files: 500 / folder

Supported file system:

FAT16 and FAT32

***Note**:*

- *Gently insert the USB device into the port and do not remove while viewing Media Player.*
- *USB device: USB Mass Storage Class device (MSC)*
- *Connectivity is not guaranteed for all devices.*
- *Connect the USB device to the TV directly.*
- *Do not use a USB Hub.*
- *You must obtain any required permission from copyright owners to use copyright content. Toshiba cannot and does not grant such permission.*
- *Depending on the file size and amount in your USB storage device, it may take some time for loading to view. A message will display on-screen when loading files from the USB storage device.*

To select the Auto Start function

1 Press MENU and ◀ or ▶ to select the **Setup** menu.
2 Press ▼ to select **Media Player**, and then press ENTER.
3 Select USB, and then press ENTER.
4 Press ▲ or ▼ to select **Auto Start**.
5 Press ◀ or ▶ to select **On** or **Off**.

To open the Media Player

There are two kinds of methods to open the Media Player.

Automatically open:

1 Gently insert a supported USB storage device to the USB port on the side of the TV. A prompt will appear.

***Note:** If you repeatedly insert and remove the USB connector, the prompt may not appear.*

2 Press ◀ or ▶ to select **Yes,** and then press ENTER. When the **Auto Start** function is **On,** the **Media Player** menu will appear. When you select **No,** nothing happens.



***Note:** The prompt will disappear after about 10 sec.*

Manually open:

1 Press MENU and ◀ or ▶ to select the **Setup** menu.
2 Press ▼ to select **Media Player**, and then press ENTER.
3 Select USB, and then press ENTER.
4 Press ▲ or ▼ to select **Photo** or **Music** then press ENTER.



***Note**:*

- *The viewer will also open even if there are no photo or music files.*
- *While the Media Player is active, the main menus cannot be displayed.*

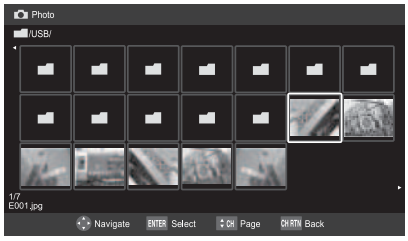
(continued)

Viewing photo files

There are three types of view modes.

Multi View:

This view allows you to search for photos in a grid format. These pictures are displayed using thumbnail data in each image file.



1 Press ▲▼◀▶ to move the highlight in one window. If all of the photos will not fit in one screen, when pressing ◀ at the top left thumbnail, the screen will move to the previous page. Conversely, when pressing ▶ at the bottom right thumbnail, the screen will move to the next page. CH ▲ / CH ▼ buttons can be used to page up/down the photo list when there are more photos than will fit onto one screen.

2 When you select a folder, press ENTER to move to the next layer. Press CH RTN to move back to the previous layer.

3 Press ENTER to view the selected photo in Single View mode.

Single View

In this view mode, only files located in the selected directory shall be displayed. This view allows you to change the photo content manually. When moving from Multi View to the Single View, the currently selected photo shall be displayed.

1 Press ▶ to view the next photo. Press ◀ to view the previous photo.

2 Press ▲ to rotate the image 90° clockwise. Press ▼ to rotate the image 90° counterclockwise.

Slideshow

This view allows you to watch a slideshow of the photos. In this mode, only files located in the selected directory will be played.

1 To start slideshow, press ENTER in the Single View mode.

2 Press ◀ / ▶ to view the previous/next photo.

To set Interval Time and Repeat settings:

1 Press MENU to open the **Quick Menu**.

2 Press ▲ or ▼ to select either **Interval Time** or **Repeat**.

3 Press ◀ or ▶ to adjust the setting and press CH RTN.

To close the Photo Viewer

1 Press EXIT. The television will return to the last viewed channel or external input.

Playing music files

You can listen to music from a list of available files.



1 Press ▲ ▼ to select a file or folder. CH ▲ / CH ▼ buttons can be used to page up/down the music list when there are more files than will fit onto one screen.

2 When you select a folder, press ENTER to move to the next layer. Press CH RTN to move back to the previous layer.

3 With the desired file selected, press ENTER or PLAY to start playback.

4 Press STOP to stop playback.

***Note**:*

- *If playback finishes before STOP is pressed, the next file will automatically start to play from the beginning.*
- *Depending on the file size, it may take some time for playback to begin.*

(continued)

During playback

- Press PAUSE/STEP to pause.
- To resume normal playback, press PLAY.
- To locate a specific file, press SKIP or SKIP repeatedly.
- To adjust volume , press VOL+ / VOL-.

***Note**:*

During playback, you can adjust the SOUND menu functions from the QUICK menu.

To set the repeat mode:

1 Press MENU to open the **Quick Menu**.
2 Press ◀ or ▶ to select **Off**, **All** or **1**.
3 Press CH RTN.

To close the Music Player

1 Press EXIT.

Viewing photo files with playing music files at same time

While viewing photo files, this allow you listen to music from a list of available files.

1 While viewing photo in the **Single View** or **SlideShow** mode, press MENU to open the **Quick** menu.
2 Highlight **Background Music** and press ENTER, the music list will appear.
3 Select a music file and press ENTER to start playback.
4 Press CH RTN to move back the photo view mode, now the music is playing in the background.

Contents	Description	Description
Photo	**Photo list** (Multi view)	See page 45.
	Sorting **To sort the folders and files** 1 Press MENU to open the **Quick Menu** from Multi View mode. 2 Press ▲ or ▼ to select **Sort**. 3 Press ◀ or ▶ to select **Title**, **New** or **Old** to set the sorting rule. **Title**--File sorting rules: **1** Unicode priority **2** (0, 1, ..., 9), capital alphabet (A, B, ..., Z), small alphabet (a, b, ..., z), Chinese **3** Increasing order **New**--From new to old according to the date and time when the picture was taken. **Old**--From old to new according to the date and time when the picture was taken.	
	Single view mode	See page 45
	Slide Show mode	See page 45
	Skip to previous/next photo	See page 45
	Slideshow Repeat play	See page 45
	Slideshow Interval Time selection	See page 45

(continued)

Contents	Description	Description
Music	**Music list** (Multi view)	See page 45.
	Sorting **To sort the folders and files** **1** Press MENU to open the **Quick Menu**. **2** Press ▲ or ▼ to select **Sort**. **3** Press ◀ or ▶ to select **Title**, **New** or **Old** to set the sorting rule.	
	Playback	See page 45
	Pause	See page 46
	Stop	See page 45
	Skip	See page 45
	Repeat play	See page 45
	SOUND Settings ("Adjusting the audio quality")	See page 38

***Note**: Sorting, Total Time display may not be available in all cases.*

Setting the sleep timer

You can set the sleep timer to turn off the TV after a set length of time (maximum of 180 minutes).

To set the sleep timer using the remote control:

Press SLEEP on the remote control to set the length of time until the TV turns off. Repeatedly press SLEEP to increase the time in 10-minute increments, or press ▲ or ▼ to increase or decrease the time in 10-minute increments, to a maximum of 180 minutes.

To set the sleep timer using the on-screen menus:

1. Press MENU and open the **Setup** menu.
2. Highlight **Sleep Timer** and press ENTER.
3. Press the Number buttons to enter the length of time in 10-minute increments.
4. Highlight **Done** and press ENTER.

***Note:** When a power failure occurs, the sleep timer setting may be cleared.*

To display the remaining sleep time:

Press SLEEP.

***Note:** A message will display on-screen when there is one minute remaining on the sleep timer.*

To cancel the sleep timer:

Repeatedly press SLEEP until it is set to 0 minute.

Automatic Power Down

The TV will automatically turn itself off (standby) after 4 hours, if you do not operate the TV either from the remote control or the TV control panel.

1. From the **Preferences** menu, highlight **Energy Saving Settings** and press ENTER.
2. Press ▲ or ▼ to select **Automatic Power Down**.
3. Press ◀ or ▶ to select **On** or **Off**, and press EXIT.

Note:

- *This feature is set to **On** when Location is set to **Home**.(Also see item 3 of "Initial Setup" on page 24)*
- *1 minute before switching to standby, a warning message will appear.*
- *When the following features are set, the feature that is set for the nearest time will function.*
  - *Automatic Power Down*
  - *Sleep Timer*
  - *No signal auto power off (after 15 minute of no signal).*

No Signal Power Down

The TV will automatically turn itself off after 15 minutes when no signal is detected.
You can change the setting to Off for the following purposes:

- low signal strength of analog channel (no signal detection)
- Only Audio L/R is connected to external input to listen to music through the TV speakers.

1. From the **Preferences** menu, highlight **Energy Saving Settings** and press ENTER.
2. Press ▲ or ▼ to select **No Signal Power Down** and press ENTER.
3. Press ▲ or ▼ to highlight the item you want to change, and press ◀ or ▶ to select **On** or **Off**.

Note:

- *Default setting is all **On**.*
- *A warning message will appear 1 minute before turning off.*

(continued)

Using REGZA-LINK®

This is a new feature that uses CEC technology and allows you to control Toshiba REGZA-LINK compatible devices from the TV remote via HDMI connection (☞ page 17).
When the Enable REGZA-LINK in the REGZA-LINK setup menu is set to **On**, the following REGZA-LINK functions will be enabled.

REGZA-LINK® playback device (DVD player, etc.) control

With your TV's remote control, or using the REGZA-LINK Player Control menu, you can control the connected REGZA-LINK playback device you are watching.

Available remote control key functions:

Before using the following key functions, first set the MODE SELECT switch on the remote control to **TV**.

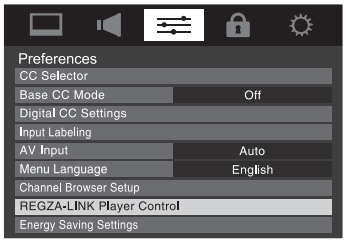
Button	Description
PLAY	Begins playback.
STOP	Stops playback.
PAUSE/STEP	Pauses the picture during play or record mode.
SKIP	Skips forward.
SKIP	Skips backward.
FF	Fast-forwards.
REW	Rewinds/reverses.
▲▼◀▶	Navigate contents menu, etc.
ENTER	Enters contents menu, etc.
EXIT	Returns to the previous menu.

Note: *These functions depend on the devices connected.*

REGZA-LINK® Player Control menu functions:

1 Press MENU and open the **Preferences** menu.

2 Highlight **REGZA-LINK Player Control** and press ENTER.



3 Press ▲ or ▼ to select the item you want to control and press ENTER.

Item	Description
Power	Turns the select device on and off.
Root Menu	Accesses the top menu of the selected device.
Contents Menu	Accesses the contents list when you press ENTER. At this time, the **REGZA-LINK Player Control** menu will disappear.
Setup Menu	Accesses the setup menu of a DVD player.
Top Menu	Accesses the top menu of a DVD.
Menu	Accesses the menu of a DVD.

Note:

- These functions depend on the devices that are connected.
- The **REGZA-LINK Player Control** item will be grayed out in the following conditions:
  - *A non-HDMI input is currently selected.*
  - *The **Enable REGZA-LINK** item is set to **Off**.*
  - *The connected CEC device is not a playback or recording device.*

REGZA-LINK® input source selection

If a REGZA-LINK device with HDMI switching capability (e.g. Audio Receiver) is connected to the HDMI input, you can select another REGZA-LINK device that is connected to the master HDMI device using the TV's INPUT button. See page 28 for details.

VOLUME and MUTE controls of Audio Receiver

With your TV's remote control, you can adjust or mute the sound volume of the Audio Receiver.

- VOL + / VOL − adjust the volume level.
- MUTE turns off the sound.

(continued)

Note:

- *To use this function:*
  - *Set **Speaker Preference** to **Audio Receiver** in the **REGZA-LINK Setup** menu.*
  - *Confirm that a connected REGZA-LINK device (such as DVD player, etc) is selected for the Audio Receiver input source.*
- *You can also use this function when the audio receiver is connected to the TV's **DIGITAL AUDIO OUT** terminal (not HDMI connection). In this case, select a digital audio input mode on the Audio Receiver.*
- *These functions depend on the device connected.*

Other REGZA-LINK® functions

When the **Enable REGZA-LINK** and each item in the **REGZA-LINK Setup** menu are set to **On**, the following functions will be enabled.

Item	Description
TV Auto Input Switch	If a connected HDMI device starts playing video or audio, the TV will automatically switch to the appropriate HDMI input.
TV Auto Power	If a REGZA-LINK device is turned on, the TV turns on automatically.
Device Auto Standby	If the TV is turned off the TV will send a message to turn off all of the REGZA-LINK devices connected to the TV.
Speaker Preference	From this item, you can set your audio output preference to the TV speakers or the audio receiver speakers. When this item is set to Audio Receiver, the TV remote can be used to adjust or mute the volume of the audio. This item will be grayed out unless a REGZA-LINK compatible audio receiver is connected.

***Note**: When you turn on the Audio Receiver, change its input source, or adjust the sound volume, the sound will be output from the audio receiver's speakers even if **TV Speakers** has been selected. Turn the TV off and on again to output the sound from the TV speakers.*

To set the REGZA-LINK® Setup:

1. From the **Setup** menu, highlight **REGZA-LINK Setup** and press ENTER.
2. Press ▲ or ▼ to highlight **Enable REGZA-LINK**.
3. Press ◀ or ▶ to select **On**.

   ***Note:** If you select **Enable REGZA-LINK Off**, the other items will be grayed out.*
4. Press ▲ or ▼ to highlight the **REGZA-LINK Setup** item you want to use, and press ◀ or ▶ to select **On** or desired mode.
   - TV Auto Input Switch: On/Off
   - TV Auto Power: On/Off
   - Device Auto Standby: On/Off
   - Speaker Preference: TV Speakers/Audio Receiver
5. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

Displaying TV status information

To display TV status information using RECALL:

Press RECALL on the remote control.

The following information will display (if applicable):

- Current input (**ANT/CABLE**, **VIDEO**, etc.)
- If ANT/CABLE is the current input, either "CABLE" (for cable TV) or "ANT" (for over-the-air broadcasts).
- Channel number (if in **ANT/CABLE** mode)
- Channel label (if applicable)
- Digital signal strength indicator (bar graph in lower right corner of box; for ATSC signal only)
- Stereo, Mono or SAP audio status (when HDMI input mode, Dolby Digital or PCM)
- Video resolution
- Aspect ratio of incoming video signal (4:3 or 16:9)
- V-Chip rating status
- GameTimer (if set)



To close the RECALL screen:

Press RECALL again.

(continued)

To display TV status information using INFO:

Press INFO on the remote control.

The following additional information will display for off air digital channels (if applicable):

- Title
- Duration
- Detailed description



Note: *The location of the banner can be moved to the top or bottom of the screen by pressing ▲ or ▼ while the RECALL or INFO display is on-screen.*

Understanding the auto power off feature

The TV will automatically turn itself off after approximately 15 minutes if it is tuned to a vacant channel or a station that completes its broadcast for the day.

Note:

- *If you want to set this feature to off, see "No Signal Power Down" on page 47.*
- *If it is possible that you will be away from the TV for an extended period of time, you should unplug the power cord.*

Understanding the last mode memory feature

If the power is cut off while you are viewing the TV, the Last Mode Memory feature automatically turns on the TV when the power is resupplied.

Note: *If it's possible, and you will be away from the TV for an extended period of time you should unplug the power cord.*

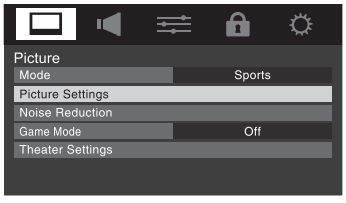
Using the advanced picture settings features

Using Dynamic Contrast

Dynamic Contrast detects changes in picture quality that affect the appearance of your contrast settings and then automatically adjusts the video.

To select Dynamic Contrast preference:

1 From the the **Picture** menu, highlight **Picture Settings** and press ENTER.



2 Highlight **Advanced Picture Settings** and press ENTER.

3 Press ▲ or ▼ to select **Dynamic Contrast**.

4 Press ◀ or ▶ to select **High**, **Middle**, **Low** and **Off**.

Using the static gamma feature

The static gamma feature allows you to adjust the levels of black in the picture.

To adjust the static gamma settings:

1 Press MENU and open the **Picture** menu.

2 Highlight **Picture Settings** and press ENTER.

3 Highlight **Advanced Picture Settings** and press ENTER.

- In the **Static Gamma** field, press ◀ or ▶ to adjust the static gamma.
  The adjustment range is within ±5 from center.
- If the setting is moved in the minus direction, the detail of black colors will be decreased.
- If the setting is moved in the plus direction, the detail of black colors will be increased.

4 To save the new settings, highlight **Done** and press ENTER.
To revert the factory defaults, highlight **Reset** and press ENTER.

Note: *If you select one of the factory-set picture modes (**Sports**, **Standard**, **Movie** or **PC**) and then change the static gamma setting, the picture mode automatically changes to **Preference**.*

Selecting the color temperature

You can change the quality of the picture by selecting from three preset color temperatures (Cool, Medium, and Warm), as described below.

Mode	Picture Quality
Cool	blueish
Medium	neutral
Warm	reddish

To select the color temperature:

1 Press MENU and open the **Picture** menu.

2 Highlight **Picture Settings** and press ENTER.

3 Highlight **Advanced Picture Settings** and press ENTER.

4 Highlight **Color Temperature** and press ENTER.

5 In the **Color Temperature** field, press ◀ or ▶ to select the mode you prefer (**Cool**, **Medium**, or **Warm**).

6 Press ▲ or ▼ to select either **B Drive** or **G Drive**, and then press ◀ or ▶ to adjust the settings.

- B Drive: ▶ makes the picture blueish.
- G Drive: ▶ makes the picture greenish.

Note: *The **B Drive** and **G Drive** settings are connected to the **Color Temperature** settings and will change based on which setting is selected in step 5 above.*

7 To save the new settings, highlight **Done** and press ENTER.
To revert to the factory defaults, highlight **Reset** and press ENTER.

Note: *If you select one of the factory-set picture modes (**Sports**, **Standard**, **Movie**, or **PC**) and then change the color temperature mode, the picture mode automatically changes to **Preference**.*

(continued)

Using CableClear® digital noise reduction

The CableClear® digital noise reduction feature allows you to reduce visible interference in your TV picture. This may be useful when receiving a broadcast with a weak signal (especially a Cable channel) or playing a noisy video cassette or disc.

To change the CableClear settings:

1 Press MENU and open the **Picture** menu, highlight **Noise Reduction** and press ENTER.

2 In the **CableClear** field, select your desired setting.

Note:

- *If the current input is **ANT/CABLE**, **VIDEO**, the menu will display the text "CableClear." The available selections are **Off**, **Low**, **Middle**, and **High**.*
- *If the current input is **ColorStream HD**, **HDMI 1** or **HDMI 2**, the menu will display the text "DNR." The available selections are **Off**, **Low**, **Middle**, and **High**. **Low**, **Middle**, and **High** will reduce the noise in varying degrees, from lowest to highest, respectively.*

3 To save the new settings, highlight **Done** and press ENTER.
To revert to the factory defaults, highlight **Reset** and press ENTER.

Using MPEG noise reduction

The MPEG noise reduction feature allows you to reduce visible interference caused by MPEG compression. Choices for MPEG noise reduction are **Off**, **Low**, **Middle**, and **High**. **Off** is automatically selected when this feature is disabled ("grayed out").

To select the MPEG noise reduction level:

1 Press MENU and open the **Picture** menu.

2 Highlight **Noise Reduction** and press ENTER.

3 Press ▲ or ▼ to highlight the **MPEG Noise Reduction** field, and then press ◀ or ▶ to select either **Off**, **Low**, **Middle** or **High**.

4 To save the new settings, highlight **Done** and press ENTER.
To revert to the factory defaults, highlight **Reset** and press ENTER.

Using the Game Mode feature

You can use the Game Mode feature for shorter frame delays when playing a video game requiring split-second timing between the on-screen display and input from the controller (such as music creation and high-action games).
This feature is more effective for 480i and 1080i input signals.

Note: *To use the Game Mode feature, the current video input must be **Video**, **ColorStream HD**, **HDMI 1** or **HDMI 2**. The Game Mode cannot be turned on when any other video input is selected.*

To turn on Game Mode:

1 Press MENU and open the **Picture** menu highlight the **Game Mode**.

2 Press ◀ or ▶ to select **On**.

To turn off Game Mode:

Select **Off** in step 2 above, change the video input, or turn the TV off and then on again.

Note: *You can change the video input by pressing INPUT on the remote control (☞ page 28).*

General troubleshooting

Before calling a service technician, please check this chapter for a possible cause of the problem and some solutions you can try.

Black box on-screen

- The closed caption feature is set to one of the Text modes (**T1**, **T2**, **T3**, or **T4**). Set the closed caption feature to **Off** (☞ page 37).

TV stops responding to controls

- If the TV stops responding to the controls on the remote control or TV control panel and you cannot turn off the TV, please unplug the power cord few seconds then re-plug to try again.

Other problems

- If your TV's problem is not addressed in this Troubleshooting section or the recommended solution has not worked, use the Restore Factory Defaults procedure (☞ page 27).

TV will not turn on

- Make sure the power cord is plugged in, and then press POWER.
- The remote control batteries may be dead. Replace the batteries or try the control panel buttons.

Picture problems

General picture problems

- Check the antenna/cable connections (☞ Chapter 2).
- Press INPUT on the remote control or TV and select a valid video input source (☞ page 29). If no device is connected to a particular input on the TV, no picture will display when you select that particular input source. For device connection details, see Chapter 2.
- Antenna reception may be poor. Use a highly directional outdoor antenna (if applicable).
- The station may have broadcast difficulties. Try another channel.
- Adjust the picture qualities (☞ page 37).

Noisy picture

- If you are watching an analog channel (off-air broadcast or Cable TV), you can set the **CableClear**® feature to reduce visible interference in the TV picture (☞ page 52).

Video Input Selection problems

- If the **Input Selection** window does not appear when you press INPUT on the remote control or TV, press INPUT a second time, which will change to the next video input source and display the **Input Selection** window.

Cannot view external signals or channel 3 or 4

- If you cannot view signals from external devices connected to **VIDEO**, **ColorStream HD**, **HDMI 1**, **HDMI 2**, **PC** or from channels 3 or 4, make sure the **Input Lock** is set to **Off** (☞ page 42).

Poor color or no color

- The station may have broadcast difficulties. Try another channel.
- Check the AV Input mode when you use **Video** or **ColorStream HD** (☞ page 26).
- Adjust the **Tint** and/or **Color** (☞ page 37).

Poor composite picture

- If the TV is connected to an external A/V device (e.g., DVD player, video game system, set-top box, etc.) try using **ColorStream HD** or **HDMI** video connection instead.

Picture and sound are out of sync

- As with all products that contain a digital display, in rare instances, when viewing certain content (e.g.. television broadcasts, video games, DVDs), you may notice that the sound and picture are slightly out of sync. This phenomenon can be caused by various factors including, without limitation, video processing within the TV, video processing in an attached gaming system, and video processing or different compression rates used by broadcasters in their programming. You may want to try one or more of the following suggestions, which may help to reduce the effect of this phenomenon:
  - If the TV is connected to an A/V receiver that has a programmable audio delay feature, use this feature to help synchronize the sound to the picture.
  - If you notice this phenomenon only on certain TV channels, please contact your local broadcast, cable, or satellite provider to inform them of this issue.

Sound problems

- Check the antenna/cable connections (☞ Chapter 2).
- The station may have broadcast difficulties. Try another channel.
- The sound may be muted. Press **VOLUME**.
- If you hear no sound, try setting the **MTS** feature to **Stereo** mode (☞ page 38).
- If you are not receiving a second audio program from a known SAP source, make sure the **MTS** feature is set to **SAP** mode (☞ page 38).
- If you hear audio that seems "incorrect" for the program you are watching (such as music or a foreign language), the SAP mode may be on. Set the **MTS** feature to **Stereo** mode (☞ page 38).

Remote control problems

- Remove all obstructions between the remote control and the TV.
- The remote control batteries may be dead. Replace the batteries (☞ page 20).
- If the TV still does not act as expected, use the Reset Factory Defaults procedure (☞ page 27).

Channel tuning problems

- The channel may have been erased from the channel memory by the **Programming channels automatically** feature. Add the channel to the channel memory (☞ page 24).
- The channel may be blocked by the **LOCK** feature. Unblock the channel (☞ page 41).
- If you are unable to tune digital channels, check the antenna configuration (☞ page 24). If you are still unable to tune digital channels, clear all channels from the channel list and reprogram channels into the channel memory (☞ page 24). If you are still unable to tune digital channels, use the Reset Factory Defaults procedure (☞ page 28). Also see "TV stops responding to controls" and "Other problems" (☞ page 53).

Closed caption problems

- If the program or video you selected is not closed-captioned, no captions will display (☞ page 36).
- If text is not available, a black rectangle may appear. If this happens, turn off the closed caption feature (☞ page 36).
- A closed-caption signal may not display correctly in the following situations: a) when a videotape has been dubbed; b) when the signal reception is weak; or c) when the signal reception is nonstandard (☞ page 36).

Rating blocking (V-Chip) problems

- If you forget your PIN code: While the PIN code entering screen is displayed, press RECALL four times within 5 seconds. The PIN code you previously stored will be cleared (☞ page 39).

No REGZA-LINK operation

- The REGZA-LINK feature is available for Toshiba REGZA-LINK compatible devices.
- Make sure the HDMI cables with the HDMI Logo (HDMI®) are used.
- When the connected REGZA-LINK device does not work correctly after you have changed settings of the device, turn off your TV and unplug the power cord, then plug and turn on again.
- If several devices are connected, REGZA-LINK feature may not operate properly.
- Read the instruction manual furnished with the connected REGZA-LINK device.

HDMI problems

For HDMI cables

- Make sure to use cables with the HDMI Logo (HDMI®) (☞ page 13).

Media Player problems

- Make sure that devices are connected correctly.
- Incorrect behavior may occur with a USB HUB connection.
- Photo files that was processed and edited by using the PC's application software may not be able to be viewed.
- The TV may select one format automatically and play it when contents that support two or more formats are played.
- Confirm contents of the USB storage device are formats that correspond with this TV (☞ page 44).

Specifications

Note:

- ***This model complies with the specifications listed below.***
- ***Designs and specifications are subject to change without notice.***
- ***This model may not be compatible with features and/or specifications that may be added in the future.***

Television System

NTSC standard
ATSC standard (8VSB)
Digital Cable (64 QAM, 256 QAM; in-the-clear, unencrypted)

Channel Coverage

VHF: 2 through 13
UHF: 14 through 69
Cable TV:
Mid band (A-8 through A-1, A through I)
Super band (J through W)
Hyper band (AA through ZZ, AAA, BBB)
Ultra band (65 through 94, 100 through 135)

Power Source: 120 V AC, 60 Hz

Power Maximum Current

19SL400U: 0.45 A
22SL400U: 0.80 A
26SL400U: 0.50 A
32SL400U: 0.65 A

Power Consumption

19SL400U: 0.5 W in standby mode
22SL400U: 0.5 W in standby mode
26SL400U: 0.6 W in standby mode
32SL400U: 0.6 W in standby mode

Audio Power:

19SL400U: 3 W + 3 W
22SL400U: 3 W + 3 W
26SL400U: 5 W + 5 W
32SL400U: 10 W + 10 W

Speaker Type:

19SL400U/22SL400U:
Two 7/8 × 3-1/2 inches (22 × 90 mm)
26SL400U:
Two 7/8 × 5-5/8 inches (22 × 142 mm)
32SL400U:
Two 7/8 × 5-3/4 inches (22 × 146 mm)

Video/Audio Terminals

VIDEO/AUDIO INPUT:
VIDEO: 1 V(p-p), 75 ohm, negative sync.
AUDIO: 200 mV(rms) (-20dBFS)

ColorStream® (component video) HD INPUT:

VIDEO: Y: 1V(p-p), 75 ohm
PR: 0.7 V(p-p), 75 ohm
PB: 0.7 V(p-p), 75 ohm
Suggested formats: 1080i, 720p, 480p, 480i
AUDIO: 200 mV(rms), 47 k ohm or greater

HDMI® INPUT:

HDMI compliant (type A connector)
HDCP compliant
Suggested formats: See table on the next page.
HDMI Audio: 2-channel Linear-PCM; 32/44.1/48 kHz sampling frequency; 16/20/24 bits per sample

DIGITAL AUDIO OUTPUT:

Optical type

PC INPUT:

15-Pin D-sub Analog RGB

Dimensions

19SL400U:
Width: 1’6-1/2 inches (470.1mm)
Height: 1’1-1/4 inches (337.3mm)
Depth: 7-5/8 inches (194mm)
22SL400U:
Width: 1’9-1/8 inches (538.06mm)
Height: 1’2-3/4 inches (373.57mm)
Depth: 8-1/8 inches (205.19mm)
26SL400U:
Width: 2’1-3/8 inches (645.09mm)
Height: 1’5-1/4 inches (437.28mm)
Depth: 7-3/8 inches (186.89mm)
32SL400U:
Width: 2’6-1/2 inches (775.4mm)
Height: 1’8-1/8 inches (512.5mm)
Depth: 7-7/8 inches (200mm)

Mass (Weight)

19SL400U: 7.7 lbs (3.5 kg)
22SL400U: 8.8 lbs (4.0 kg)
26SL400U: 13.2 lbs (6.0 kg)
32SL400U: 18.7 lbs (8.5 kg)

Operating conditions

Temperature: 32ºF - 95ºF (0ºC - 35ºC)
Humidity: 20 - 80% (no moisture condensation)

Supplied Accessories

- Remote control with two size “AAA” batteries
- Owner’s manual (this book)

Acceptable signal formats for PC IN and HDMI terminals

PC IN signal formats

Note: *Depending on the connected PC, the following status may occur; incorrect display, false format detection, picture position failure, blur, or judder. But this is not a malfunction of your TV.*

Format	Resolution	V. Frequency	H. Frequency	Pixel Clock Frequency
VGA	640 × 480	59.940Hz	31.469kHz	25.175MHz
SVGA	800 × 600	60.317Hz	37.879kHz	40.000MHz
XGA	1024 × 768	60.004Hz	48.363kHz	65.000MHz
WXGA	1280 × 768	59.870Hz	47.776kHz	79.500MHz
	1360 × 768	60.015Hz	47.712kHz	85.500MHz

HDMI signal formats

Format	Resolution	V. Frequency	H. Frequency	Pixel Clock Frequency
VGA	640 × 480	59.940Hz	31.469kHz	25.175MHz
SVGA	800 × 600	60.317Hz	37.879kHz	40.000MHz
XGA	1024 × 768	60.004Hz	48.363kHz	65.000MHz
WXGA	1280 × 768	59.870Hz	47.776kHz	79.500MHz
	1360 × 768	60.015Hz	47.712kHz	85.500MHz
SXGA	1280 × 1024	60.020Hz	63.981kHz	108.000MHz
480i	720 × 480i	59.940Hz	15.734kHz	27.000MHz
480p	720 × 480p	59.940Hz	31.469kHz	27.000MHz
720p	1280 × 720p	60.000Hz	45.000kHz	74.250MHz
1080i	1920 × 1080i	60.000Hz	33.750kHz	74.250MHz
1080p	1920 × 1080p	24.000Hz	27.000kHz	74.250MHz
1080p	1920 × 1080p	60.000Hz	67.500kHz	148.500MHz

Limited United States Warranty for LCD Televisions

Toshiba America Consumer Products, L.L.C. ("TACP") makes the following limited warranties to original consumers in the United States.

THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS LCD TELEVISION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE. LCD TELEVISIONS PURCHASED IN THE U.S.A. AND USED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES. LCD TELEVISIONS PURCHASED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, AND USED IN THE U.S.A., ARE NOT COVERED BY THESE WARRANTIES.

Limited One (1) Year Warranty on Parts and Labor

TACP WARRANTS THIS LCD TELEVISION AND ITS PARTS AGAINST DEFECTS IN MATERIALS OR WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ORIGINAL RETAIL PURCHASE. DURING THIS PERIOD, TACP WILL, AT TACP'S SOLE DESCRETION, REPAIR OR REPLACE A DEFECTIVE PART/PRODUCT WITH A NEW OR REFURBISHED PART/PRODUCT WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. ANY PART OR PRODUCT REPLACED UNDER THIS LIMITED WARRANTY BECOMES THE PROPERTY OF TACP. IN SOME CASES, YOU MAY BE RESPONSIBLE FOR DELIVERING THE PRODUCT TO A SERVICE CENTER.

Rental Units

Warranty period begins on the date of the first rental or thirty (30) days after the date of shipment to the rental firm, whichever comes first.

Limited Warranty for Commercial Units

TACP warrants parts and labor for LCD Televisions that are sold and used for commercial purposes for a period of ninety (90) days after the date of original retail purchase. This warranty is void if the product is exposed to excessive temperature (heat/cold), moisture as outlined in the product's specification listed in the Owner's manual as well as exposure to excessive smoke, dust, or other airborne contaminants. All exclusions outlined in paragraph (4) and (5) under the "Your Responsibilities" section apply to commercial use.

Your Responsibility

Read the owner's manual thoroughly before operating this LCD Television.

Complete and mail the enclosed product registration card or register your LCD Television online at **www.tacp.toshiba.com/service**. Registration of your LCD Television will enable TACP to contact you in the unlikely event a safety notification is required under the U.S. Consumer Product Safety Act. **Failure to complete and return the product registration card does not diminish your warranty rights.**

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

This Limited Warranty is extended only to the original purchaser and only covers product purchased as new.

(1) A purchase receipt or other proof of the original purchase date is required for Warranty service.
(2) All warranty servicing of this LCD Television must be performed by an Authorized TACP Service Station.
(3) The warranties from TACP are effective only if this LCD Television is purchased and operated in the U.S.A. or Puerto Rico.
(4) Removal and reinstallation of product that is mounted in such a manner as to impede normal service is not covered under these warranties. This includes wall mounts, custom cabinets and other installation methods that do not provide for direct and immediate access to the product for service purposes. Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna, satellite or cable systems are not covered by this warranty. Reception problems caused by inadequate antenna systems, misaligned satellite dishes or improperly installed cable drops are your responsibility.
(5) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any LCD Television or parts that have been lost or discarded by you or to damage to the LCD Television or parts caused by fires, misuse, abuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TACP; use or malfunction through simultaneous use of this LCD Television and connected equipment; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.
(6) Products purchased "AS-IS" or "With known faults, defects or problems" are not covered by this limited warranty. Product previously owned or registered by a consumer and resold is not covered by this limited warranty.
(7) Product that is refurbished and resold is not covered under this warranty.

How to Obtain Warranty Service

If, after following all of the operating instructions in this manual, review the section entitled "Concierge" located on our Customer Support Web site "**www.tacp.toshiba.com/customersupport**".
If you find that service is needed, follow the instructions provided on the web site or please contact TACP's Consumer Solution Center toll free at 1-800-631-3811. You must present upon request your original bill of sale or other proof of purchase including the serial number for in warranty service.

ALL WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A., INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THE LIMITED WARRANTIES SET FORTH ABOVE. WITH THE EXCEPTION OF ANY WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A. AS HEREBY LIMITED, THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS, AND SIMILAR OBLIGATIONS OF TACP WITH RESPECT

TO THE REPAIR OR REPLACEMENT OF ANY PARTS. IN NO EVENT SHALL TACP BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, BUSINESS INTERRUPTION, OR MODIFICATION OR ERASURE OF RECORDED DATA CAUSED BY USE, MISUSE OR INABILITY TO USE THIS LCD TELEVISION).

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever. The time within which an action must be commenced to enforce any obligation of TACP arising under the warranty or under any statute, or law of the United States or any state thereof, is hereby limited to ninety (90) days from the date you discover or should have discovered, the defect. This limitation does not apply to implied warranties arising under the law of any state of the U.S.A.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE IN THE U.S.A. SOME STATES OF THE U.S.A. DO NOT ALLOW LIMITATIONS ON THE DURATION OF AN IMPLIED WARRANTY, WHEN AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. THEREFORE, THE ABOVE PROVISIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.

Limited Canadian Warranty for Toshiba Brand Flat Panel Televisions

Toshiba of Canada Limited ("**TCL**") makes the following limited warranties to original consumers in Canada. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TOSHIBA BRAND FLAT PANEL TELEVISION (the "TELEVISION(S)" or "Television(s)") AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

TELEVISIONS PURCHASED IN CANADA, AND USED ANYWHERE OUTSIDE OF CANADA INCLUDING, WITHOUT LIMITATION, THE UNITED STATES AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES.

TELEVISIONS PURCHASED ANYWHERE OUTSIDE OF CANADA, INCLUDING, WITHOUT LIMITATION, THE UNITED STATES AND MEXICO, AND USED IN CANADA, ARE NOT COVERED BY THESE WARRANTIES.

Limited One (1) Year Warranty on Parts and Labour

TCL warrants the Television and its parts against material defects in materials or workmanship that result in the Television failing for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR RECERTIFIED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOUR.

Rental Units

The warranty for Television rental units begins with the date of first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

Your Responsibility

Read the owner's manual thoroughly before operating this LCD Television. Complete and mail the enclosed product registration card or register your LCD Television online at http://support.toshiba.ca/warranty/. Registration of your LCD Television will enable TCL to contact you in the unlikely event of a product safety notice. Failure to complete the product registration does not diminish your warranty rights.

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

(1) You must provide your bill of sale or other proof of purchase.
(2) All warranty servicing of this Television must be performed by a Toshiba Authorized Service Provider (ASP).
(3) The warranties from TCL are effective only if the Television is (i) purchased as new and unopened from TCL or from TCL's authorized distributors, dealers or resellers ("**ADR**'s") and (ii) located/operated in Canada.
(4) Removal and reinstallation of product that is mounted in such a manner as to impede normal service is not covered under these warranties. This includes wall mounts, custom cabinets and other installation methods that do not provide for direct and immediate access to the product for service purposes. Labour charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.
(5) Warranties extend only to material defects in materials or workmanship as limited above, and do not extend to:
    a. Service, repairs or replacement made necessary by accident, misuse, abuse, moisture, liquids, dust, dirt, neglect, accident, damage, 24/7 applications, improper installation, improper operation, improper cleaning, improper maintenance, normal wear and tear, screen burn or image retention caused by prolonged display of static images and/or phosphor aging, or any other external cause or event, act or omission outside the control of TCL, including fire, theft, acts of God, alteration, power failures, power surges or power shortages, lightning, other electrical faults, or repairs, modifications or replacements by persons other than those authorized by TCL to service the Television;
    b. Replacement of missing, discarded or lost parts, the provision of retrofits, or preventive maintenance;
    c. Repair of damage that is cosmetic only or does not affect the Television functionality, such as wear and tear, scratches and dents;
    d. Service on Toshiba-branded accessory items (such accessory items may be covered by their own warranty);
    e. Service on third party products or service made necessary by use of incompatible third party products;
    f. Service made necessary by the simultaneous use of this Television and connected equipment;
    g. Modifications to the Television not approved in writing by TCL, and service made necessary by the use or installation of non-Toshiba modifications to the Television;

h. Service of a Television on which the TOSHIBA label or logo, rating label or serial number have been defaced or removed;
i. Damage to the Television caused by failure to follow the specifications, User manuals or guides as to usage and/or storage.
j. Firmware updates that are posted to the Toshiba Support website and can be performed by the end user via a USB stick or SD card type media.

Disclaimer and Limitation of Remedy

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Arbitration and Dispute Resolution

To the extent not precluded by law, any claim, dispute, controversy or disagreement (whether for breach of warranty, breach of contract, tort (including negligence), under a statute or under any other law or form of action) against any of the Related Parties arising out of, or otherwise relating to: (i) this warranty; (ii) the Television; (iii) any oral or written representations, statements, brochures, press releases, advertising, announcement, point of sale display, or promotional material relating to the Television; (iv) the relationships that result from this warranty, (the foregoing claims, disputes controversies and disagreements are collectively referred to as the "Dispute"), shall be referred to and resolved by final and binding arbitration (to the exclusion of the courts). To the extent not precluded by law, you agree to waive any right that you may have to commence or participate in any representative or class proceeding against the Related Parties relating to any Dispute. If and where applicable and to the extent not precluded by law, you further agree to opt out of any such representative or class proceedings. Arbitration of any Dispute will be conducted in the forum and in the manner as agreed to between you and TCL. Failing such agreement, the arbitration will be conducted by one arbitrator pursuant to the laws and rules relating to arbitration generally in force in the jurisdiction in which you reside at the time that the Dispute arises. To the extent not precluded by law, no claim, dispute, controversy or disagreement of any other person may be joined or combined with any Dispute by you, without the prior written consent of TCL.

Critical Applications

The Television you have purchased is not designed for any "critical applications." "Critical applications" means life support systems, medical applications, connections to implanted medical devices, commercial transportation, nuclear facilities or systems or any other applications where Television failure could lead to injury to persons or loss of life or catastrophic property damage.

IF THE CUSTOMER USES THE TELEVISION IN ANY CRITICAL APPLICATION, THE CUSTOMER – AND NOT TCL, ITS AFFILIATES, ADRs OR ASPs – ASSUME SOLE AND FULL RESPONSIBILITY FOR SUCH USE. TCL RESERVES THE RIGHT TO REFUSE TO SERVICE ANY TELEVISION USED IN A CRITICAL APPLICATION. TCL, ITS AFFILIATES, ADRs AND ASPs HEREBY DISCLAIM ANY AND ALL LIABILITY, DAMAGES AND CONSEQUENCES ARISING OUT OF THE SERVICE OR REFUSAL TO SERVICE SUCH TELEVISION AND FURTHER DISCLAIM ANY AND ALL LIABILITY, CONSEQUENCES AND DAMAGES THAT MAY ARISE OR RESULT FROM THE USE OF THE TELEVISION IN ANY CRITICAL APPLICATIONS.

General Provisions

If and to the extent that any provision of this limited warranty should generally be found to be unenforceable, the unenforceable provision shall be severed from the warranty and deemed not to form part of the warranty. The remaining provisions of this warranty

shall be and remain valid and enforceable. If and to the extent that any provision of this limited warranty as it relates to any of the Related Parties is found to be invalid or unenforceable in respect of that party (the "Excluded Party"), the Excluded Party shall be deemed to be severed or excluded from the provision, and the provision shall remain valid, enforceable and applicable in respect of the other or remaining Related Parties.

To the extent permitted by law, this limited warranty shall be governed and construed in accordance with the laws of Ontario.

If there is any inconsistency between this limited warranty, on the one hand, and any statement in the packaging of the Television or in any other document enclosed with, or used in the context of the promotion or sale of, the Television, on the other hand, the provisions of this limited warranty shall prevail.

How to Obtain Warranty Services

If, after following all of the operating instructions in this manual, checked the "Troubleshooting" section, and have visited **www.toshiba.ca/support** for additional information, you find that service is needed, please contact TCL Customer Support toll free at 1 800 268-3404.

A copy of the GPL source code in this product may be obtained by contacting Toshiba Consumer Solutions at (800)631-3811. There will be a charge to cover the costs of providing the source code.

Note

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